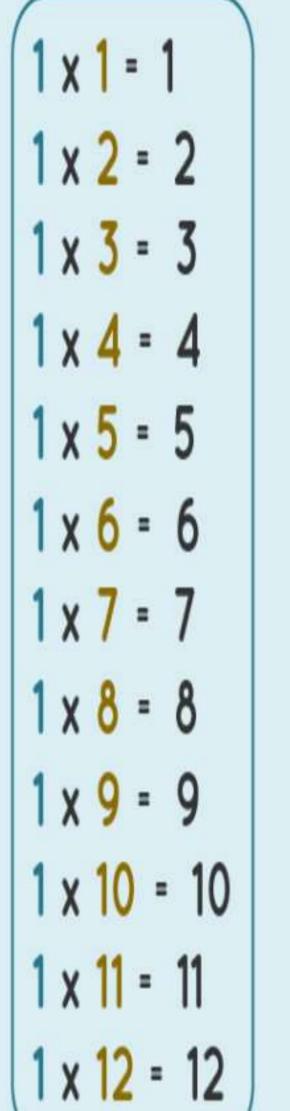




### Multiplication Tables and Charts



```
2 x 1 = 2

2 x 2 = 4

2 x 3 = 6

2 x 4 = 8

2 x 5 = 10

2 x 6 = 12

2 x 7 = 14

2 x 8 = 16

2 x 9 = 18

2 x 10 = 20

2 x 11 = 22

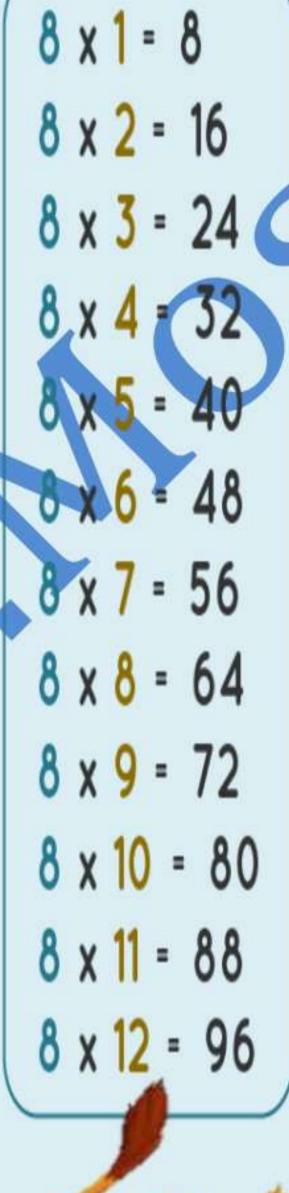
2 x 12 = 24
```

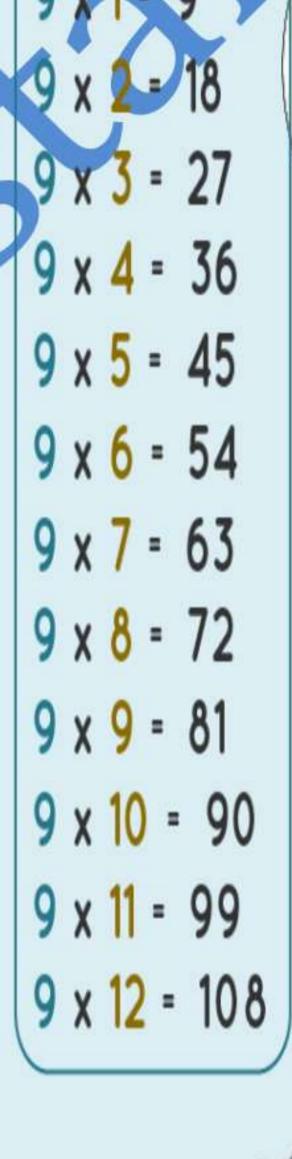
3	X	1	-	3
3	X	2	=	6
3	X	3	=	9
3	X	4	=	12
3	X	5	=	15
3	X	6	=	18
3	X	7	=	21
3	X	8	=	24
3	X	9	=	27
3	X	10	) :	= 30
3	X	11	=	33
3	X	12	=	36

4 x 1 = 4	5	X	1=	5
4 x 2 = 8	5	X	2 -	10
4 x 3 = 12	5	X	3 -	15
4 x 4 = 16	5	X	4 :	20
4 x 5 = 20	5	X	5 -	25
4 x 6 = 24	5	X	6	30
4 x 7 = 28	5	X	1	35
4 x 8 = 32	5	X	8	40
4 x 9 - 36	5	X	9 -	45
4 x 10 = 40	5	X	10	= 5(
4 x 11 = 44	5	X	11 :	55
4 x 12 = 48	5	X	12	= 60
	1			

	6			
6	X	1 =	6	
6	X	2 =	12	
6	X	3 -	18	
6	X	4=	24	
0	X	5 =	30	
6	X	6 =	36	
6	X	8 =	48	
6	X	9 =	54	
6	X	10	= 60	
6	X	11 =	66	
6	X	12 -	72	
	6 6 6 6 6 6 6	6 x 6 x 6 x 6 x 6 x 6 x	6 x 2 = 6 x 3 = 6 x 5 = 6 x 7 = 6 x 9 = 6 x 10 = 6 x 11 =	

7	X	1 :		7
7	X	2	=	14
7	X	3	=	21
7	X	4	=	28
7	X	5	=	35
7	X	6	=	42
7	X	7	=	49
7	X	8	5	56
7	X	9	=	63
7	X	10		70
7	X	11	=	77
7	X	12	=	84





1	( and			
ſ	10 x 1 = 10	st wi	2nes 11 x 1 =	11
l	10 x 2 = 20		11 x 2 =	22
	10 x 30=11300c	2132	11 x/3/=	33
\	10 x 4 = 40		11 x 4 =	/
	10 x 5 = 50		11 x 5 =	55
	10 x 6 = 60		11 x 6 =	66
	10 x 7 = 70		11 x 7 =	77
	10 x 8 = 80		11 x 8 =	88
	10 x 9 = 90		11 x 9 =	99
	10 x 10 = 100		11 x 10	= 110
	10 x 11 = 110		11 x 11 =	121
	10 x 12 = 120		11 x 12	= 132
7				
-				

2	12 x 2 = 24
3	12 x 3 = 36
4	12 x 4 = 48
)	12 x 5 = 60
5	12 x 6 = 72
1	12 x 7 = 84
}	12 x 8 = 96
9	12 x 9 = 108
0	12 x 10 = 120
1	12 x 11 = 132
32	12 x 12 = 144











Unit 1

Really Big Numbers

2) Changing Values

lessons 1&2

### Learn

#### MILLIONS



The greatest 6-digit number is 999,999



999,999 + 1 = 1,000,000 its called one million



Million is the smallest 7-digit number



		P	
			6/7
	6	V	6
6	6	1	
1			

	Million	S	Th	ousands	Ones			
Н	T	0	Н	T O_	Н	T	0	
		1	0	0 0	0	0	0	

Now we can decompose and read the number 12,354,768



	Millions			ousan	ds	Ones		
Н	T	0	$\pm$	Т	0	Н	Т	0
	1	2	3	5	4	7	6	8

### Ex Complete the following

1)12,354,768

2325,045,500 Million, ..... Thousands, beast wishes

...... Million, ..... (3)140,000,010 =

4)3,400,000 = ...... Million, 400 Thousands 01119062132





(7)3 Milliard, 864 Thousands, 184 = .....

(8) 6 Million, 32 Thousands, 472 = ...

967 Million, 452 Thousands = .....

**To think** 15 Million, 68 Thousands, 7 = ......



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### Exercise Complete:

- ① 5,314,250 = ...... Million, ....... Thousands, ......
- ② 520,475,452 = ...... Million, ...... Thousands, ......
- ③ 14, 003,050 = ..... Million, ...... Thousands, ......
- 4) 50,000,420 = ..... Million, ......
- ⑤ 5 Million, 164 Thousands,9 = .....
- ⑥ 25 Million, 14 Thousands, 24 = .....
- ⑦ 5 Million, 164 Thousands,9 = .....
- 8 18 Million, 145 = .....
- 9 254,618 = 254,000 + .....
- 10 325,000 + 759 = .....



#### Learn

### MILLIARDS BILLIONS)

The greatest 9-digit number is 999,999,999

999,999,999 + 1 = 1,000,000,000 its called one milliard

Milliard is the smallest 10-digit number



	Milliards		Millior	าร	Thousands Ones
		Ι	Т	0	HOTO
4	1	0	0	0	0 0 0

12,354,768,524 = 2 Milliards, 354 Million, 768 Thousands, 524

②1,052,000,861 = 1 Milliards, 52 Million, 861

To think 3 Milliards, 65 Thousands, 218 = .....



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2



#### Learn

### Changing Values



#### Each number in this system = 10 times of the number which in the right of it

Hundred Million	Ten Million	Million	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones
2	2	2	2	2	2	2	2	2
200,000,000	20,000,000	2,000,000	200,000	20,000	2,000	200	20	J 2

10 X 10 X 10 X 10 X 10 X



You can put zeroes instead of these words:/



**Hundreds = 00** 

Thousands = 000



Ten Thousands

= 0.000

Hundred Thousands = 00,000

Million

= 000.000

Ten Million = 0,000,000

**Hundred Million = 00,000,000** 

Milliards = 000.000.000



3720 hundreds = .....thousands

Canaa: 40::

②700 thousands = .....

4050 thousands = 5,000tens

⑤2,000 is 10 times.....

6 500,000 is 10 times .....

⑦ 80,000 = ..... Tens

@3,000 = ..... hundreds

Evereice

With my beast wishes

MINOSTALZA

#### Exercise

#### Complete:

1)60 tens -..... hundreds

②320 hundreds ≠ ..... tens

390 thousands = .....

4)40 hundreds = .....

(5) 1,200 ten thousands = .....million

6 50 million = .....

⑦300 ten million = .....

8500 tens = .....

9..... = 10 times 40,000

① .....= 10 times 700



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4

### Complete:

1- ..... = 10 times 720

2- the value of the digit 8 in the number 1,285,453 is ......

3- 350 hundreds = ..... thousands

4- the place value of the digit 7 in the number 4,478,310 is ....................

5- 5,420,045 = ...... million, ......thousands, .....

### Choose the correct answer:

1- the smallest 10-digit number is ......

- a) thousand b) million
  - ion c) ten million
- d) milliard

2- the value of the digit 0 in the number 7,508,487 is ......

- a) 0
- b) 1,000
- c) 10,000
- d) 100,000

3- if the place value of 4 is ten thousands then its value is ......

- a) 70
- b) 7,000
- c) 70,000
- d) 7,000,000

4- if the value of the digit 8 is 8,000,000 thousands then its place value is ........

- a) thousand
- b) million
- C) ten million
- d) milliard

5-4milliard, 42 million, 60 = ......

فعرف المحقق سبب الوفاة

قما هو السبب ؟؟

- a) 44,260
- b) 404,260
- c) 4,042,060 01119062132
- d) 4,042,000,060

### لغز للأذكياء

شخص متوفي على شاطئ البح وفي يده ورقة مكتوب فيها

N 0 8 4 3 days

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5

lessons 3&4

### Many Ways to Write





#### Learn

### Many Ways to Write Numbers

#### Standard form

We use it most often

2,856,410,820

13,541,088

5,648,504

8,625

All of these numbers are written in standard form

**Expanded form** We write the numbers using its place value

$$12,675 = 10,000 + 2,000 + 600 + 70 + 5$$

$$1,345,215 = 1,000,000 + 300,000 + 40,000 + 5,000 + 200 + 10 + 5$$

$$30,450,085 = 30,000,000 + 400,000 + 50,000 + 80 + 5$$

Zeroes are not write in expanded form

$$3,\underline{00}6,416,150 = 3,000,000,000 + 6,000,000 + 400,000 + 10,000 + 6,000 + 100 + 50$$

#### Word form

We write the numbers using words

735,652 = seven hundred thirty-five thousands, six hundred fifty-two

3,450,625 = three millions, four hundred fifty thousands, six hundred twenty-five

5,008,045,007 = five milliards, eight millions, forty five thousands, seven

#### Short-Word form

We write the numbers using numbers and words 01119062132

$$735.652 = 735 \text{ thousands, } 652$$



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6

### Examples

#### Choose the correct answer:

- 1- Three milliards, six hundred million, nine hundred forty thousands, seventy five =
  - a) 360,094,075
- b) 3,600,940,057
- c) 3,600,940,075
- d) 75,940,600,003
- 2-6,000,000 + 200,000 + 50,000 + 400 + 20 + 7 = ......
- a) 6,250,427
- b) 6,250,000,427
- c) 427,250,006
- d) 625,42
- 3- 5 milliards, 15 million, 235 thousands, 384 = .....
- a) 5,235,015,384
- b) 5,015,235,348
- c) 515,235,384
- d) 5,015,235,384
- 4- 34 millions, 97 thousands = ..... (in expanded form)
- a) 30,000,000 + 4,000,000 + 900,000 + 7,000
- b) 30,000,000 + 4,000,000 + 90,000 + 7,000
- c) 30,000,000 + 4,000,000 + 900,000 + 70,000
- d) 300,000,000 + 4,000,000 + 90,000 + 7,000

### Exercise

#### **O**Choose the correct answer



- 1- five milliards, eighty-four million, six hundred thousands, seventy three = .....
  - a) 5,084,600,073
- b) 584,673
- c) 5,840,600,073
- d) 5,084,600,037
- 2-50,000,000 + 3,000,000 + 500,000 + 20,000 + 6,000 + 700 + 5 = .....
  - a) 5,352,675
- b) 53,526,705
- c) 53,526,750
- d) 503,526,705

- 3-43 million, 5 thousands, 317 = .....
  - a) 43, 500,317
- b) 43,050,317
- c) 43,005,317
- d) 43,005,371
- 4- 12 millions, 45 thousands = ..... (in ex
  - (in expanded form)

- a) 10,000,000 + 2,000,000 + 400,000 + 5,000
- b) 100,000,000 + 2,000,000 + 40,000 + 5,000
  - c) 10,000,000 + 2,000,000 + 400,000 + 50,000
- d) 10,000,000 + 2,000,000 + 40,000 + 5,000

#### 2 complete:

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- 2- 18 million, 273 thousands, 45 = ..... (in standard form)
- 3- the standard form of 5,000,000 + 30,000 + 4,000 + 700 + 10 + 2 is ......
- 4-7,061,495 = ...... million , ...... Thousands , ......

#### Learn

### Composing and Decomposing





its mean put the numbers together

Decomposing ( its mean put the number in broken parts using expanded form or round brackets ( )

### Examples

#### Decompose each of the following:

$$245,683 = 1^{st} Way$$

$$2^{\text{nd}}$$
 Way = (2X100,000) + (4X10,000) + (5X1,000) + (6X100) + (8X10) + (8X10)

or = 
$$(5X...) + (4X...) + (2X...) + (3X...) + (5X...)$$

#### Compose each of the following:

$$(7X1,000,000) + (5X100,000) + (4X10,000) + (3X1,000) + (2X100) + (9X10) + (3X1) = ......$$

### **Exercise** 1- Decompose the following numbers using expanded form:

#### Compose the following numbers:

# as Mostella



$$1-5,000,000 + 200,000 + 4,000 + 800 + 70 + 3 = ...$$

$$2 - 400,000 + 50,000 + + 300 + 10 = \dots$$

### 1- Complete:

10

①7 million, 305 thousand,  $68 = \dots$  (in standard form)

②  $5,000,000 + 70,000 + 5,000 + 800 + 20 = \dots$  (in standard form)

③305,702 = ( 3X ......) +(5X .....) + (7X ......) + (2X .....

4) 2 milliard, 127 thousand, 469 = ......

⑤14,003,140 = ..... million, .....thousands, .....

#### 2- Choose the correct answer:

@seven hundred million, nine hundred twenty-five thousand, fourteen = .....

- a) 7,925,014
- b) 70,925,014
- c) 700,925,040
- d) 700,925,014

The standard form for (7X100,000) + (5X10,000) + (4X100) is ......

- a) 750,400
- b) 705,400
- c) 400,750
- d) 400,705

®which of the following represent 805,402

- a) eight hundred fifty thousand, four hundred two
- b) eight hundred five thousand, two hundred four
- c) eight hundred five thousand, four hundred two d) four hundred two thousand, eight hundred five

3- Decompose the following:

@9,012,125=



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@ 3,007,005,017= .....

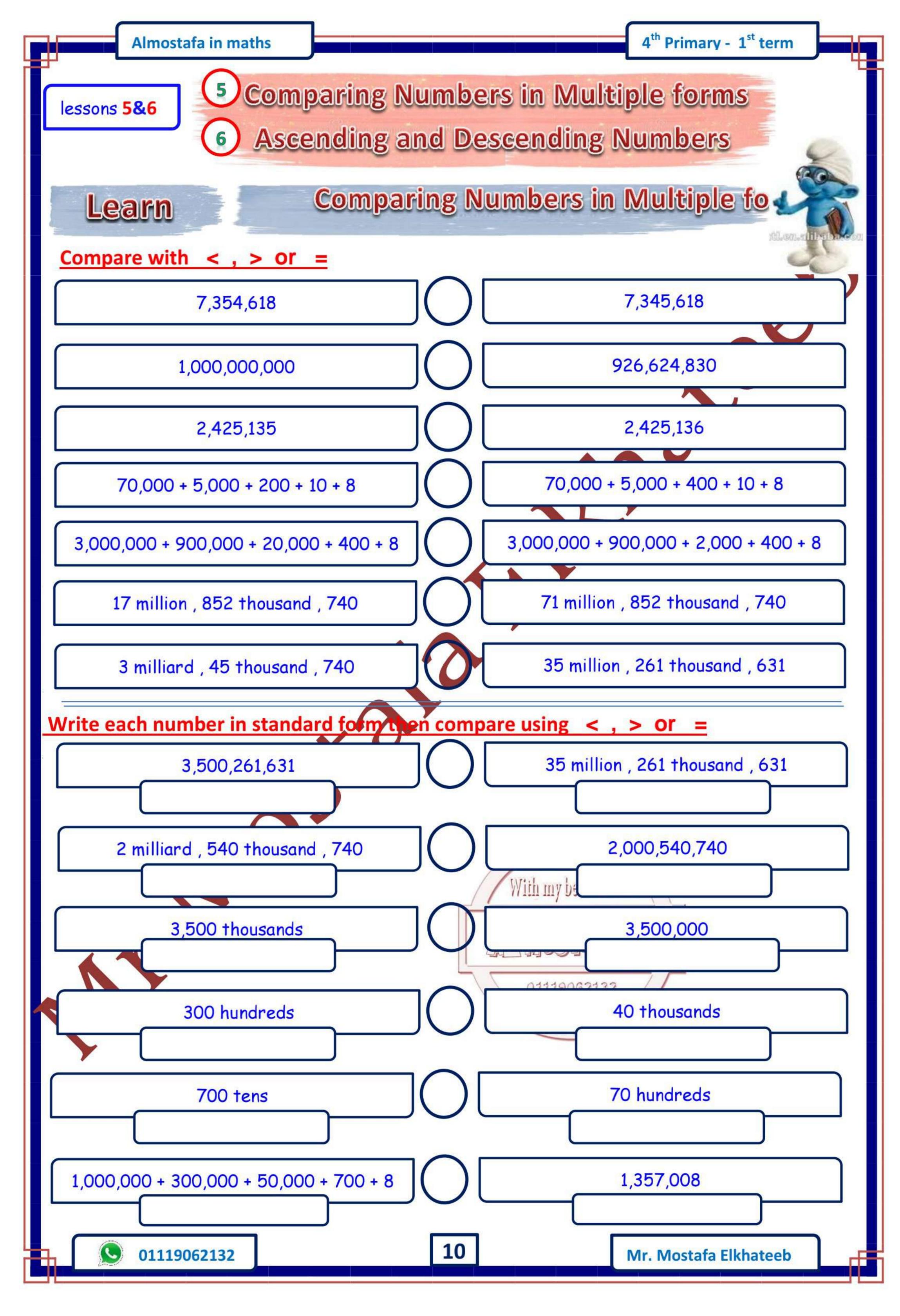
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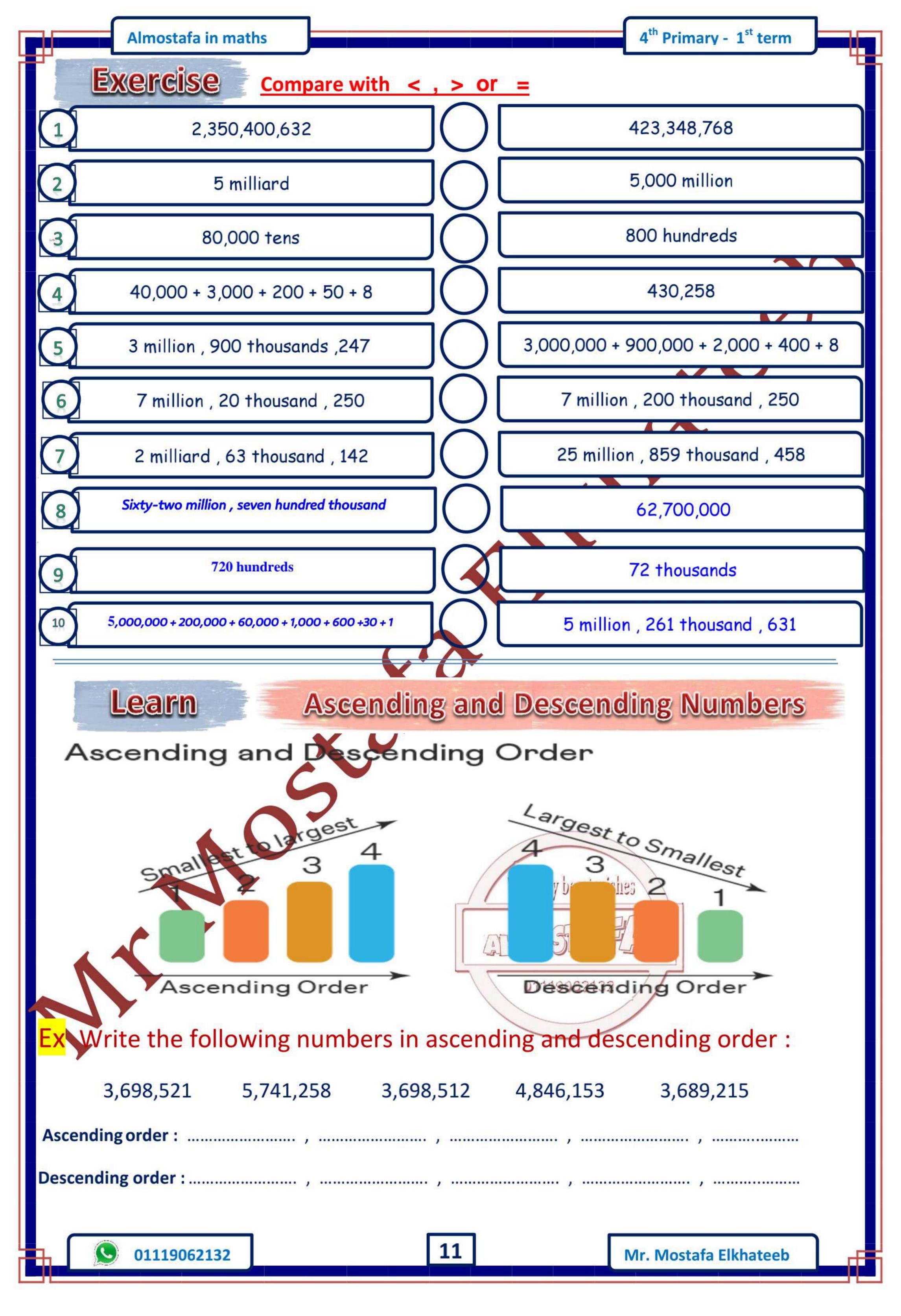
شيء لا يعمل إلا إذا أدخلت أصابعك في عينيه؟



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### Ex List following numbers in descending order (use standard form)

- 1) four milliard, six hundred thousand, four
- 2 461,014
- 3 four milliard, six hundred thousand, forty
- (4) (4X1,000,000,000) + (4X100,000) + (6X10)
- ⑤ 6,400,042

#### List following numbers in ascending order (use standard form

- 6 eight hundred million, twenty-five thousand, thirty-one-
- 7800,000,000 + 20,000 + 5,000 + 300 + 1
- ® 18 million, 25 thousand, 13
- 108,002,005,031

Ascending order:....., ....., .....

#### Exercise

- 1 Arrange the following numbers in ascending order:
- ①2,450,618 , 2,405,618 , 2,540,618 , 2,450, 186 , 245,618

- ② 430,000,449 , 43,000,549 , 403,000,456 , 430,549,000
- 1) five million, seventy-four thousand, eighty
- **25,000,000 + 700,000 + 4,000 + 8**
- 35 million, 47 thousand, 18
- 4 (5X1,000,000) + (7X100,000) + (4X10)
- **⑤5,074,180**



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12

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(1) Compare using > , < or = :

20

- 1- 3,465,280
- 2- 51,470,014 9,452,759
- 3- 852,456,951 852,654.951
- 4- 7,753,002 7,753,020
- 5- 6 milliard, 8 million, 700 6 milliard, 800 thousand, 700
- (2) Arrange the following numbers in ascending order:
  - 1,741,123 , 1,741,132 , 1,123,741 , 1,714,321

② 3,200,450,014 , 2,700,450,014 , 5,100,450,014 , 4,600,450,014

- 3 Arrange the following numbers in descending order
  - 1 315,165 , 465,215 , 1,000,741 , 269,321

With my bes

MI WOCKER

② 321,147,896 , 369,789,123 , 47,456,123 , 753,159,251

- Use the standard form to arrange the following numbers in ascending order:
- 1) five million, seventy-four thousand, eighty
- 2 5,000,000 + 700,000 + 4,000 + 8
- 35 million, 47 thousand, 18
- 4 (5x1,000,000) + (7x100,000) + (4x10)
- 5 074,180



ما هو الشيء الذي تقوم بذبحه وتبكي عليه؟



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### Learn

### Way 2 Using place value strategy

#### Ex Use place value strategy to round each of the following:

MPORTANI

12,181 =	 (to the nearest thousand)
	 to the hierarcot the document

#### Exercise

## Use place value strategy to complete the following:

The number	Nearest hundred	Nearest thousand	Nearest ten thousand	Nearest million
3,458,365				
12,731,849				
1,683,745				
4,0548,700		***************************************		
16,325,477		***************************************		***************************************

#### Choose the correct answer :

1) 2,725 = ..... to the nearest thousand

a- 2,700

b- 2,800

c- 2,000

d-3,000

a-387,400

b-387,500

c-387,000

With my beast wishes

AL MOSILIFA

d-400,000

a- 74,000,000

b-75,000,000

c-74,400,000

d-73,000,000



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**15** 

#### (1) Complete the following:

(A)rounding the number 23,520 to the nearest thousand ≈ ......

(B)rounding the number 34,089 to the nearest ten thousand ≈ ......

 $\bigcirc$  163,500,486  $\approx$  ...... (to the nearest million)

D2,456,219  $\approx$  ...... (to the nearest ten thousand)

 $\bigcirc$  4,983,415  $\approx$  ...... (to the nearest hundred thousand)

#### 2) Choose the correct answer:

a- 125,440

b- 125,400

c- 125,000

d-126,000

Brounding the number 6,749,001,551 to the nearest ten milliard ≈ ..............

a- 6,000,000,000 b- 7,000,000,000

c-8,000,000,000

d-6,700,000,000

 $\mathbb{C}$ 14,349,538  $\approx$  ...... (to the nearest million)

a- 14,000,000

b- 15,000,000

c- 14,300,000

d- 14,350,000

D174,618 ≈ ..... (to the nearest thousand)

a- 174,600

b- 174,000

c- 175,000

d- 176,000

(to the nearest hundred thousand)

a-3,450,000

3,450,700

c-3,400,000

d-3,500,000

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# القطة الختلفة؟







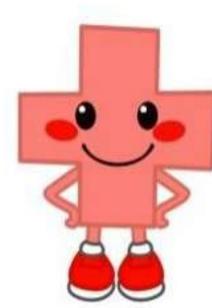


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Unit 2

- 1 Properties of addition
- lessons 1&2
- 2 Addition with regrouping



### Learn

### 1 Properties of addition

Commutative

Associative

Additive identity

Add numbers in any order will get the same sum

$$3+7 = 7+3 = 10$$

Group the addends in different ways will get the same sum

$$4+7+6$$
  $4+7+6$   $(4+7)+6$   $4+(7+6)$   $= 11+6$   $= 4+13$   $= 17$ 

Add zero to any number will get the same number

$$8+0=0+8=8$$

The additive identity is zero (0)

### Ex① Complete the following

Ex 2 use the properties of addition to find the sum:

#### **Exercise** Choose the correct answer:

$$\textcircled{B}8+(12+9)=(8+12)+9$$
 is ...... Property

0

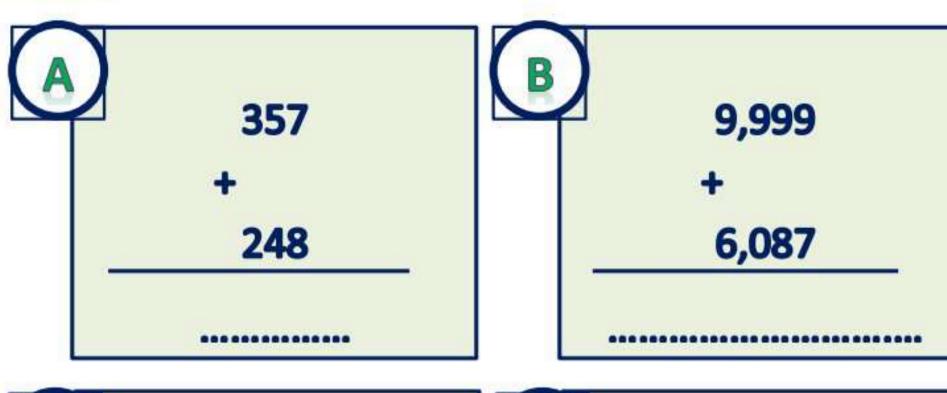
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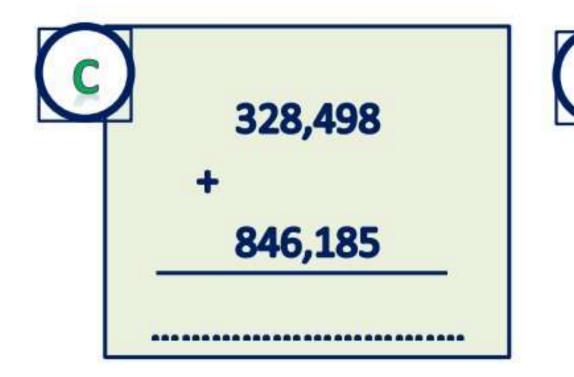
17

### Learn

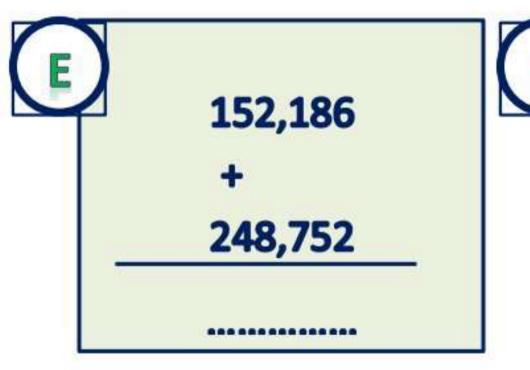
### 2 Addition with regrouping

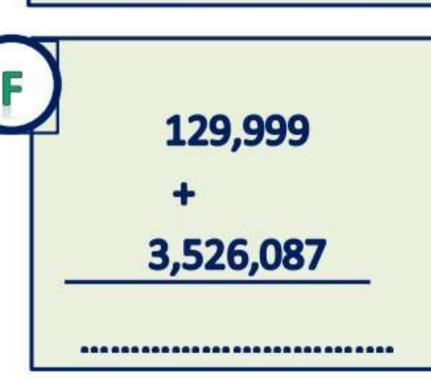
### Ex① find the sum of the following:

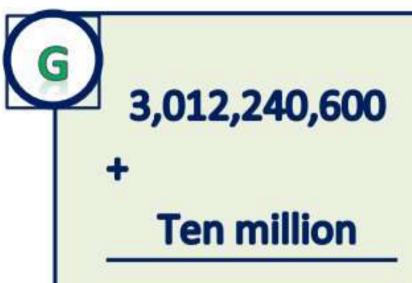










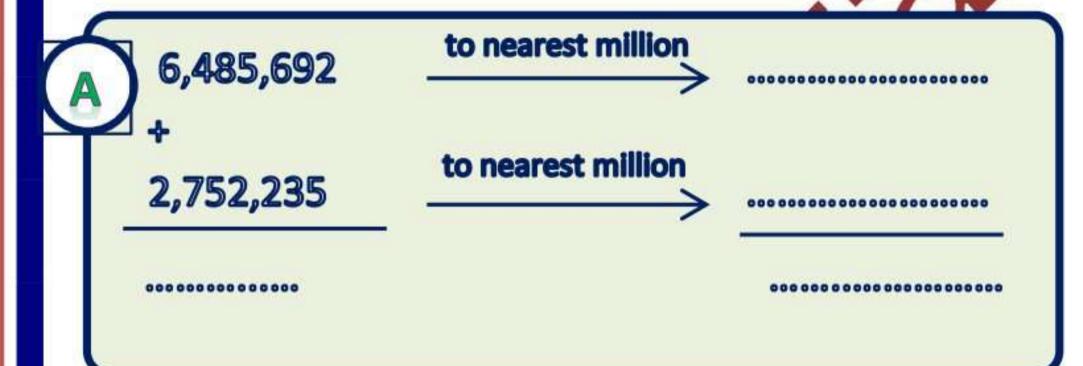


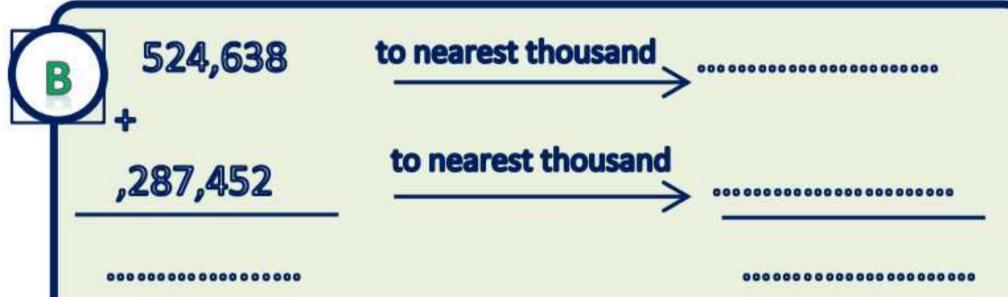


...................................

### Ex② complete the following:

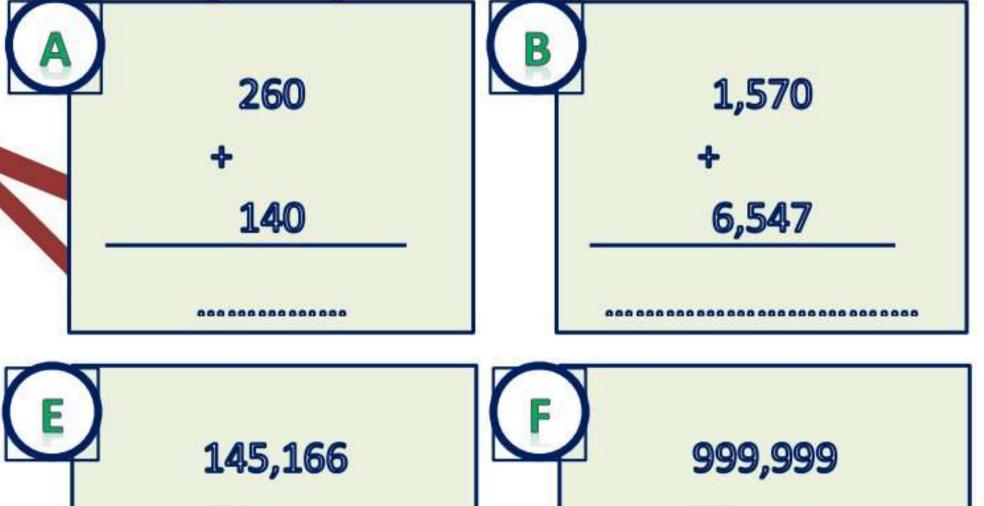
### Ex3 Round each of the following then find the exact sum:

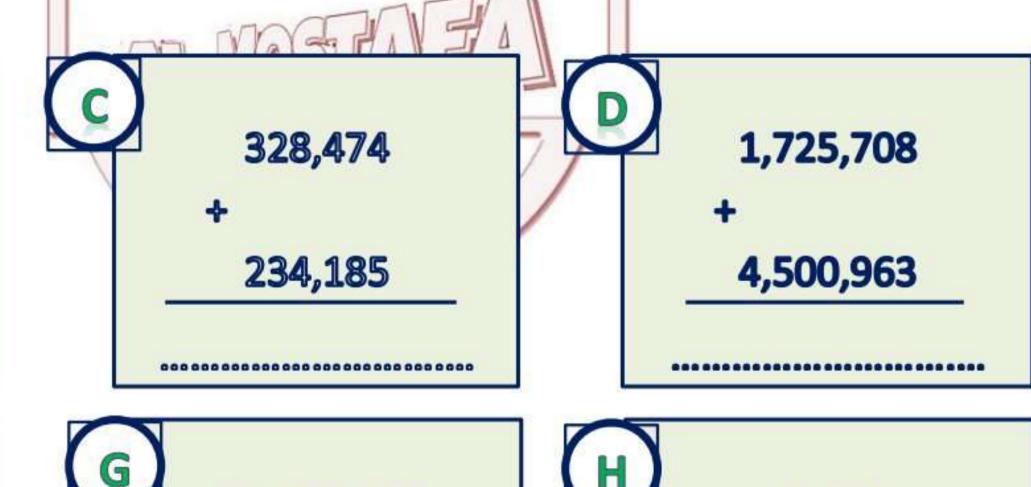


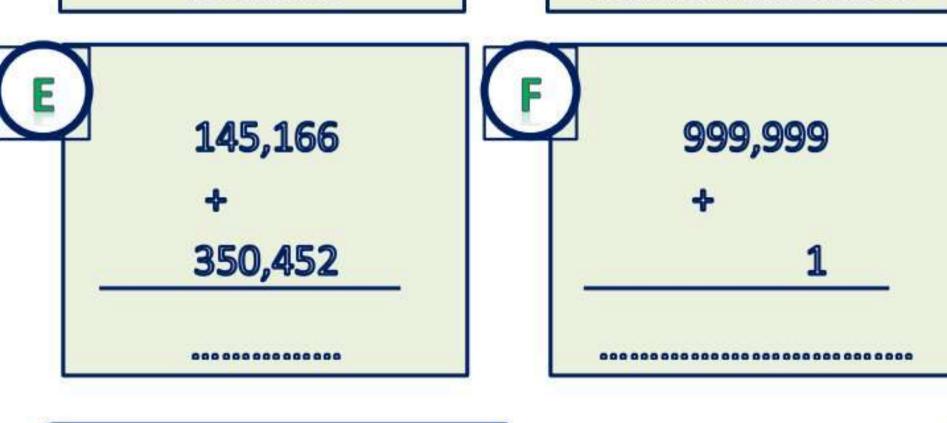


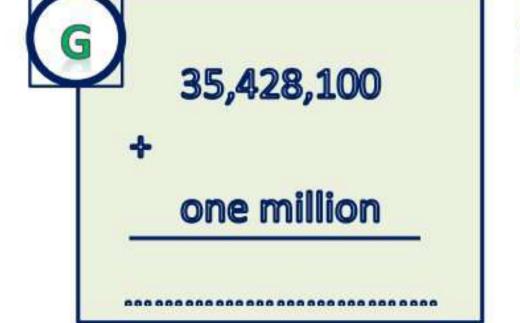
### Exercise

#### 1) Find the sum:

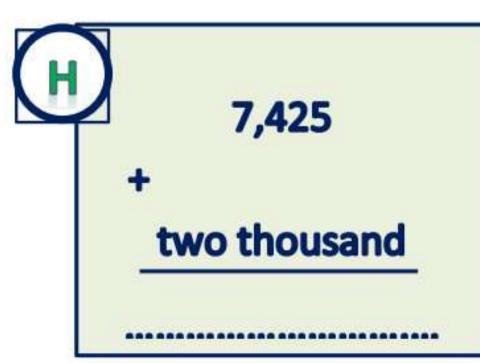








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01119062132 Mr. Mostafa Elkhateeb

ألغاز العباقرة للأذكياء فقط

**1) Find the sum of the following:** 









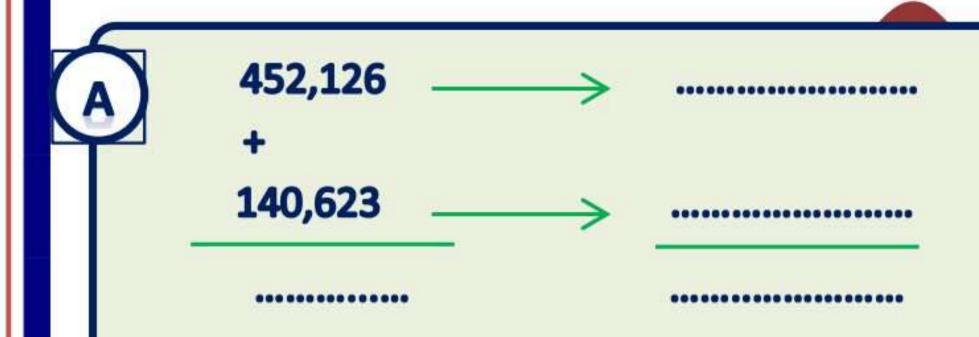
...............................

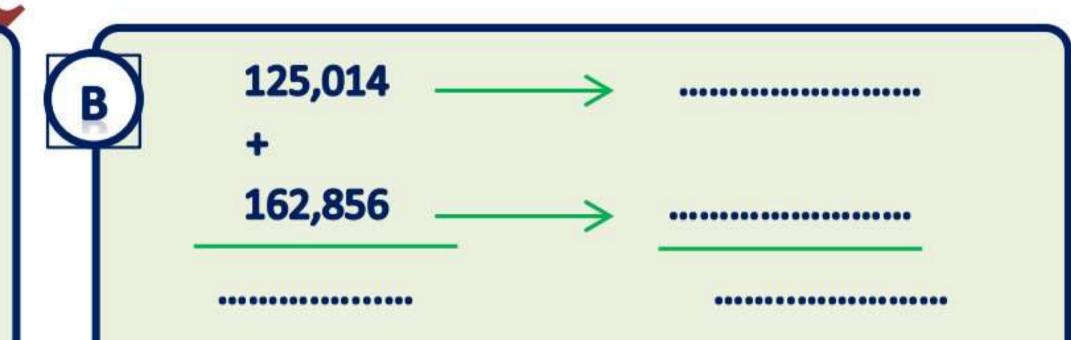


2) find the sum



3 Round to the nearest hundred thousand then find the exact sum:





4) Heba bought a laptop for 13,458 pounds, and a TV set for 8,450 pounds

What the total money did she pay?



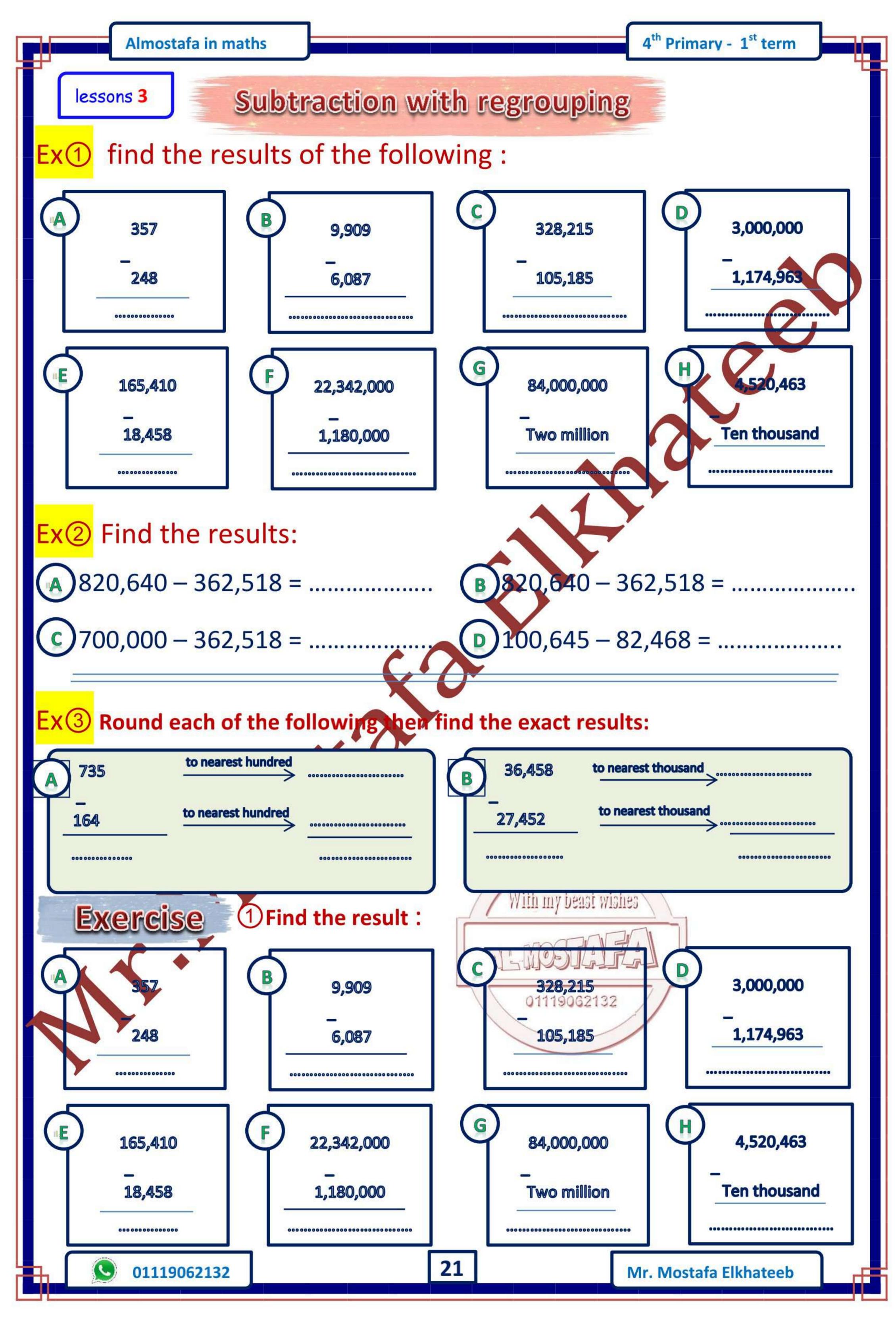
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(5) Ahmed and Abeer are travelling from Aswan to Alexandria, they travel 514 km in the first day, and 597 km in the second day. How many kilometers they are travel in all?



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### Story problems

#### WE USE SUBTRACT WITH THIS WORDS





(A) Samir and Mohamed participated in a project.

Samir paid 342,650 pounds. If the cost of the project is 668,500 pounds, how much is Mohamed paying?



BIf the population of Matrouh Governorate is 517,901 people, and the population

of South Sinai Governorate is 112,211, then what is the difference between the population of Matrouh Governorate and the population of South Sinai Governorate?



©A trap jaw ant wanted to cross a liver that was 3,548 cm across. The ant had already swum 1,672 cm.

How much farther does the ant have to go?



With my beast wishes

OA fire ant colony has 255,000 ants. A Gigantism destructor

ant colony has 6,200 ants. What is the difference between



the size of the two colonies?







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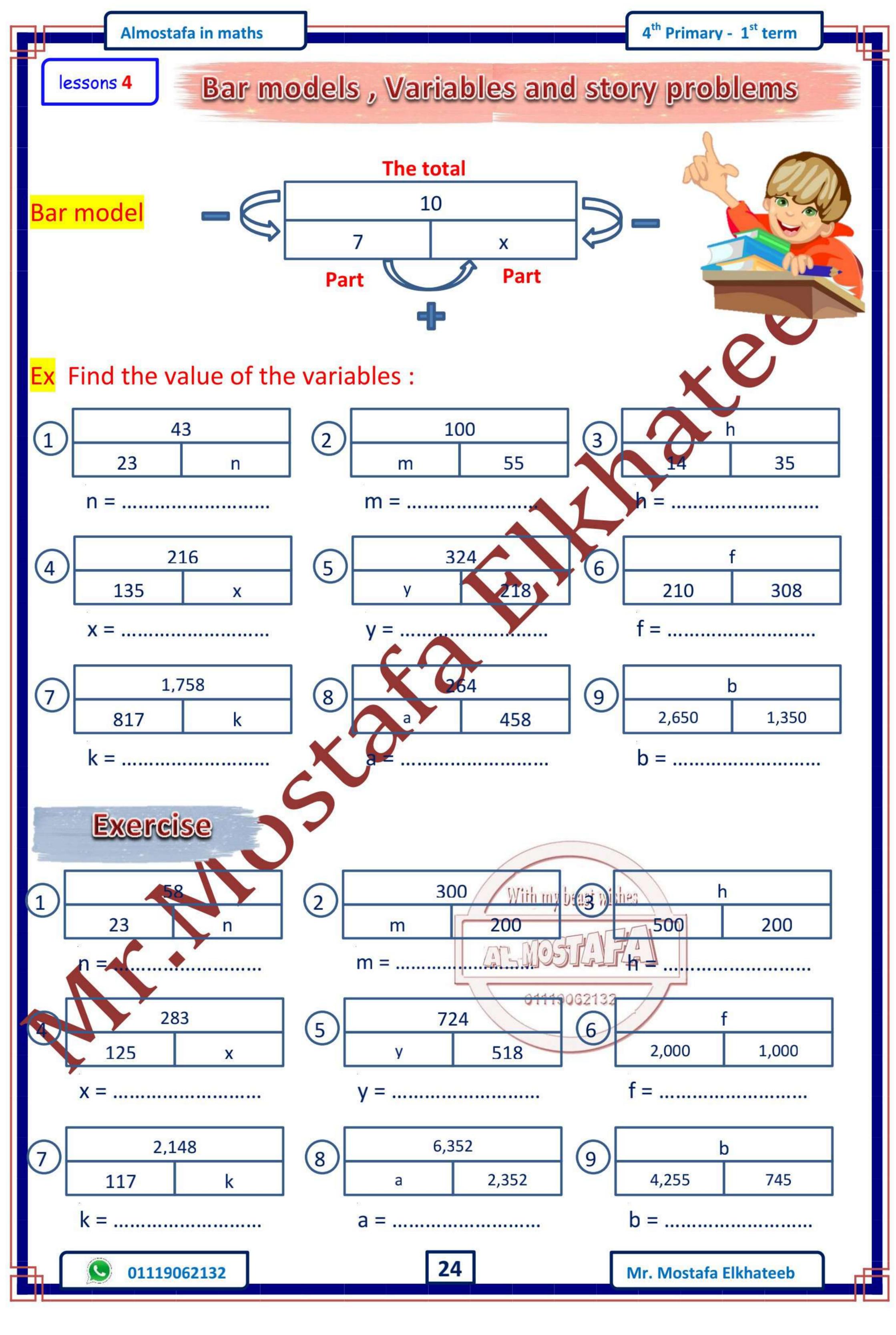
22

### Choose the correct answer.

- (1) Subtract: 613 247 =.....
- A. 567
- B. 434
- C. 36

- D. 807
- (2) Find the difference: 457,206 124,680= .....
- A. 332,486
- B. 333,486
- C. 332,526
- D. 333,526
- (3) Which one has the answer 23,837?
- A. 37,521-12,684 C. 36,521-13,684
- B. 36,521-12,684
- D. 38,521-13,684
- (4) A local bakery sold 1,232 Zalabya in one day. If they sold \$76 Zalabya in the morning, how many were sold during the rest of the day?
  - A. 356
- B. 520
- C. 1,588
- D. 2,108
- (5) If Ahmed had 100 pounds, and the sum of what he and his friend had was 350 pounds. How much money did his friend have?
  - A. 250
- B. 150
- D. 50

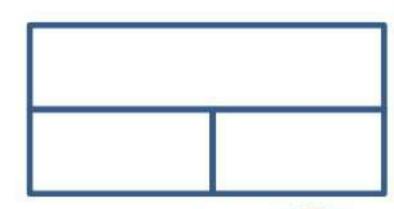
- 2,524
- -1,352(6) Salma solves this problem
- Vhat is her next step?
  - A. Add 2 and 5 in the tens place.
  - B. Subtract 5 from 2 in the tens place.
  - C. Regroup the tens place and subtract 5 from 12
  - D. Regroup the tens place and subtract 5 from 11
- Which choice shows how you would correctly use rounding to estimate 01119062132 a reasonable answer to the problem 537-259?
- A. 520-250 = 270
- C. 540-260 = 280 B. 530 240 = 290
- D. 540-250 = 290
- (8) A shop sold goods for 54,243 pounds and 34,786 pounds in the next day. What is the difference between the sales in the two days?
- A. 54,243-34,786 = 20,543 pounds.
- C. 54,243 + 34,786 = 88,929 pounds.
- B. 54,243-34,786 = 19,457 pounds.
- D. 54,243 + 34,786 = 89,029 pounds



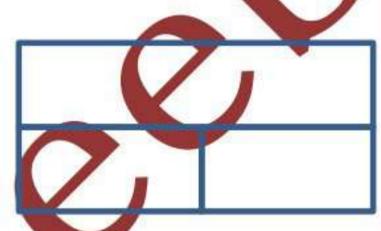
#### Variables and solving equation

### Ex①: Use bar model to solving the following equations:

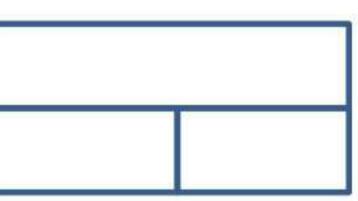
- 1 a + 9 = 13 a =
- 2 b 15 = 21 b = .....



- 38 + c = 50
- 47 e = 28 e = .....



- 5 125 + 150 = f f = .....
- 6 310 200 = h h =



### Ex2 : Complete :

②In the equation m+ 710 = 930, then m = ......

③In the equation n - 1,590 = 3,410, then n = ......

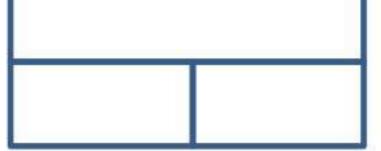
4) If C - 2,348 = 5,053, then C = ...

#### Work area

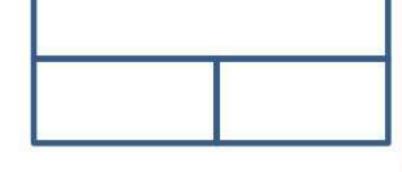
### Exercise

## Use bar model to solving the following equations:





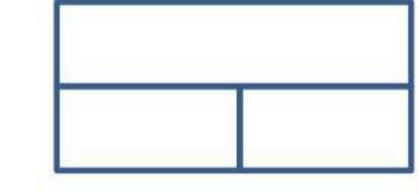




3) 38 + c = 50



4) 47 – e = 28 e = .....



- ⑤ If C 48 = 52, then C = ....
- ⑥ If 500 b = 300, then b = .....
- ⑦ If 128 + x = 350, then x = .....
- 8 If y + 345 = 490, then y = .....

#### Story problems

1 Mr. Mostafa has written 157 page	es of a book. He	e wants the book	to have about
550 pages. How many more pages of	does he need to	write?	

Equation:.....

Solution:

②The number of boys and girls in a school is 2,340 if the number of boys in this school is 1,234 What is the number of girls in this school?

Equation:

Solution:

③There are 5,328 ants in the colony. In the colony, 2,164 ants are females and the rest are males. How many male ants are in the colony?

Equation:

Solution:

(4) There are 12,000 species of ants (2,500 species live in Africa and the rest live in other parts of the world. How many species do not live in Africa?

Equation:

Solution:..

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#### **Exercise**

In colony A there are 1,200 ants. Some ants are out foraging for food and supplies, and 700 ants are taking out the colony's trash. How many ants are foraging for food and supplies?

Equation:....

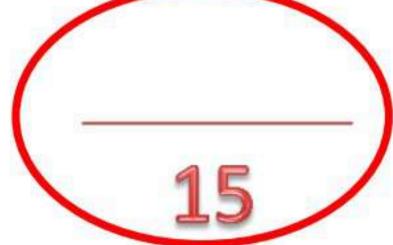
Solution:

0

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26

#### 1) Choose the correct answer.



- ①If x 8 = 24, then x = ....
  - A. 20
- B. 8

C. 32

D. 10

- ②What is the value of x? 25+x=37
  - A. 7

B. 12

C. 62

D. 72

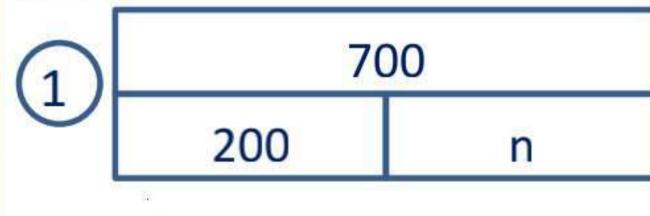
- ③If 32,782+k=41,262, then k = ......
  - A. 8,562
- B. 8,480

- C. 74,044
- 73,916

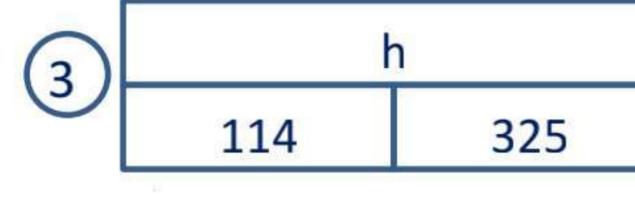
- 4 If 35,741-y=7,425, then y = ....
  - A. 28,316
- B. 43,166
- C. 40,213
- D. 15,730
- ⑤There are 30,000 ants in the colony, In the colony 17,300 are females and the rest are males then the number of male ants=.....
  - A. 47,300
- B. 12,452

- 50.760
- D. 12,700

#### ②Find the value of the variables

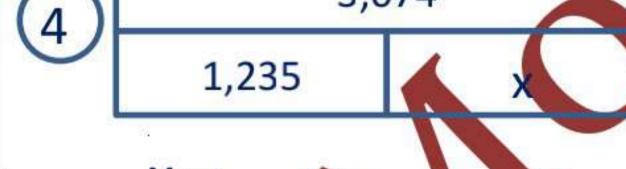


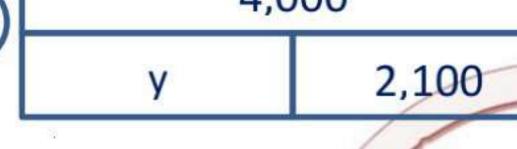




3,074









#### 3 Use bar model to solving the following equations:

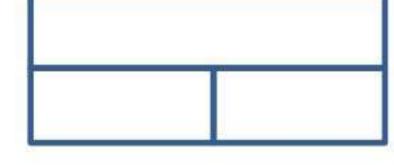








$$4)$$
  $680 - b = 240$ 





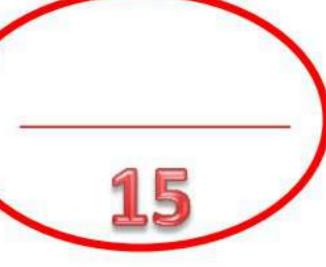


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lessons 5

# Solving multistep story problem with addition and subtraction

①Ali is reading a book. He reads 96 pages in the first week and 129 pages in the
second week. The book has 290 pages. How many pages are left to read?
②A library sold 25,325 books in the first week, 19,712 books in the second week and
28,119 in the third week. If the library had 473,590 book. How many books are left?
③ Sara, Bassem and Mina are collecting stamps. Sara collected 743 stamps, Bassem
collected 198 stamps and Mina collected 357 stamps. How many more stamps did Sara collect than Bassem and Mina have combined?
<b>Exercise</b> With my beast wishes
The ant colony website hopes that a new colony A with up to 173,500 will form. If a colony of 27,385 ants and a colony of 52,890 ants join the new colony, how many more ants can join?



The Great Pyramid had 59,000 visitors in January, 27,525 visitors in February, and 32,975 visitors in March. They expect to have 150,000 visitors by the end of April. How many visitors need to show up in April to reach this count?

.....

New Valley has a population of 256,088. If Matrouh has a population of 429,999 and South Sinai has a population of 108,951, how many more people do Matrouh and South Sinai have combined than New Valley?

A factory sold 6,580 toys in the first month, 7,214 toys in the second month, and 5,975 toys in the third month. The expect number of sold toys is 25,000 toys by the end of the fourth month. Now many toys are needed to be sold in the fourth month

to reach this count?



لغز للأذكياء فقط....
ام مريم عندها 4بنات خوخةومشمشةوتفاحة فعنو ما اسم البنت الرابعة؟!





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Unit 3

lessons 1



$$1 meter = 10 dm$$

$$1 \text{ meter} = 100 \text{ cm}$$

$$1 \, \text{cm} = 10 \, \text{mm}$$

$$12 \, \text{m}$$
,  $8 \, \text{cm} = 1,208 \, \text{cm}$ 



### Metric sytem

### Ex①: complete the following:

#### Exercise

Measuring lengths

01119062132

Almostafa in maths

### Ex②: complete the following:

③ 7,048 m = ......km , ...... m

### Ex3 : complete the following :

### Exercise

With my hand wishes

## <u>نغز</u>

شهر هجري إذا حذفت وسطه أصبح اسم فاكهة فما هو؟



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15

### 1) Complete the following:

③100 mm = .....cm

### 2 Choose the correct answer:

B. 1,814

D. 18,014

B. 5 , 50

C. 56 my beast wishes

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D. 50 , 500

B. 4,160

D. 4,016

A. 3

B. 30

D. 13,000

A. 5

B. 50

C. 500

D. 50,000



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#### lessons 2

### Measuring Mass (Weight)

X 1,000

#### Mass units:

1 kilogram (kg)

1,000 gram (g)

 $\div$  1,000

#### 1 kg = 1000 g

$$5 kg = 5000 g$$

### 2 kg, 75 g = 2,075 g

### Ex①: complete the following:

$$67 \text{ kg}$$
,  $248 \text{ g} = \dots \text{g}$ 

$$@8,000 g = .....kg, .....g$$

$$\textcircled{5}3,038 \text{ g} = \dots \text{kg}, \dots \text{g}$$

### Exercise 1

$$61 \text{ kg}$$
,  $855 \text{ g} = \dots \text{g}$ 

$$97 \text{ kg} + 45 \text{ g} = \dots \text{g}$$

### Exercise 1

#### Choose the correct answer:

$$[A - 814]$$

$$B - 148$$

With my beast wishes

$$D - 1,408$$

② 
$$18 \text{ kg}$$
,  $7 \text{ g} = \dots \text{g}$ 

$$[A - 187]$$

$$B - 718$$

$$C - 1,807$$

$$D - 18,007$$

$$340,000 g = ..... kg$$

$$[A-4]$$

$$B - 40$$

$$C - 400$$

$$D - 4,000$$

$$43,003 g = .....kg, .....g$$

$$[A-3,3]$$

$$B - 3,30$$

$$C - 3,300$$

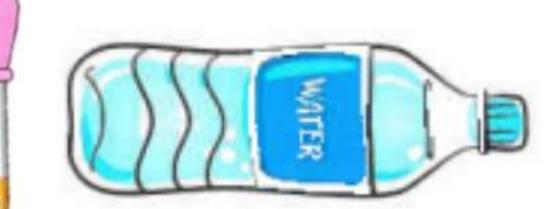
$$D - 30,30$$

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lessons 3

### Capacity



Capacity units:

1,000 Milliliter (ml)

 $\div$  1,000

X 1,000

 $1L = 10000 \, \text{ml}$ 

$$5L = 5000 \, \text{ml}$$

2L,75 ml = 2,075 ml

### **Ex**(1): complete the following:

### Exercise (1)

### Exercise (2)

#### Choose the correct answer:

$$[A - 714]$$

$$B = 14701119062162 - 7,014$$

With my beast wishes

$$D - 1,407$$

$$[A - 183]$$

$$B - 318$$

$$C - 1,803$$

$$D - 18,003$$

$$[A - 100]$$

$$B - 10$$

$$C-1$$

$$D - 1,000$$

$$(4)3,020 \text{ ml} = \dots L, \dots \text{ ml} \quad [A-3,2]$$

$$[A - 3.2]$$

$$B - 3,20$$

$$C - 3,200$$

$$D - 30,20$$

#### (1) Complete the following:

$$(7) 6 L = \dots ml$$

# (2) Choose the correct answer:

B. 814

A. 32

C. 56 my beast wishes

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B. 4,160

A. 3

B. 30



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35

#### lessons 4

#### What time is it?



#### Units of measuring times:

X	7
~	•
	X

Week	1	2	3	4	•••••
day	7	14	21	28	

X 24					
day	1	2	3	4	
hour	24	48	72	96	

# X 60

hour	1	2	3	4	•••••
minute	60	120	180	240	••••

minute	1	2	3	4	••••	
second	60	120	180	240	••••	

# Ex①: complete the following:

# Exercise 1

lessons 5

# How long does it take? (Elapsed time)

54 D/54			oping, and spent 50 minutes d Laila spend in the mall?
②Yasser finds that a cine	ema show is full when h	e arrives at 7:50	DA.M. next show begins at
	vill he have to wait for the		
Bassem left school at 2:3 arrive home?	O PM. and arrived hom	e 35 minutes lat	er. What time did Bassem
Peter completed a bike r	ide 3 hours and 26 min	utes after he sta	rted. He started the bike
ride at 8:15 A.M. At wha	t time did he finish?	With my beast wishes	
Mona's birthday party st	arted at 7:00 in the eve		und 2 hours and 40 minutes
for the party to get over	. What is the time at wh	ich the party go	t over?
01110062122	37	7	Almostafa in maths

15

#### 1) Complete the following:

- a. 3 weeks = .....days.
- c. 3 days= ..... hours.
- e. 5 minutes = ..... seconds.
- g. 3 hours= ..... minutes.
- i. 25 days= ..... weeks, ..... days.

- b. 2 hours = ..... minutes
- d. 2 weeks = ..... days.
- f. 10 days= ..... hours.
- h. 2 minutes = ..... seconds.
- j. 130 minutes = .....hours, ...... minutes.

# 2 Choose the correct answer:

- ① 5 weeks, 5 days =..... days.
  - A. 10

B. 25

C. 40

D. 50.

- ② 2 days and 2 hours = ..... hours.
  - A. 22

B. 4

C. 62

D. 50

- ③ 1 day and 5 hours= ...... hours.
  - A. 29

B. 62

C. 65

D. 35

- 4 2:50+40 minutes = .....
  - A. 2:10

B. 3:10

Git 2:54 st wishes

- D. 3:30
- ⑤ At 9:20 A.M. a teacher set a timer for 30 minutes quiet reading time. What time will it be when the timer rings?
  - A. 9:50 P.M.
- B. 9:50A.M.
- C. 9:10A.M
- D. 10:05 P.M.

لَخْزِ 🖫 ما الأثقل في الوزن طن الحديد أم طن الورق؟



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lessons 6

# Measuring the world around me Part 1: use addition and subtraction

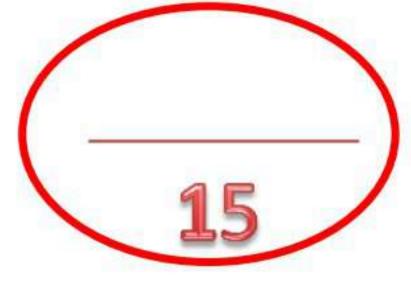
① Ali and Giovanni each caught a fish. The two fish have a mass 8,250 g The mass of
Giovanni's fish is 3 kg,530 g What is the mass of Ali's fish?
② A tailor used 1 m, 35 cm of cloth to make a shirt and 2 m, 15 cm to make trousers.
What is the total length of cloth used by the tailor to make a shirt and trousers?
③ A fish tank with a capacity of 92 liters is filled with 23,000 milliliters of water. How
many more liters of water are needed to fill it up completely?
Exercise 1
Ahmed studied from 3: 15-4:45. His sister, Sarah studied from 4:30-6:15 Who studied
Longer and by how much?  O1119062132

lessons 7

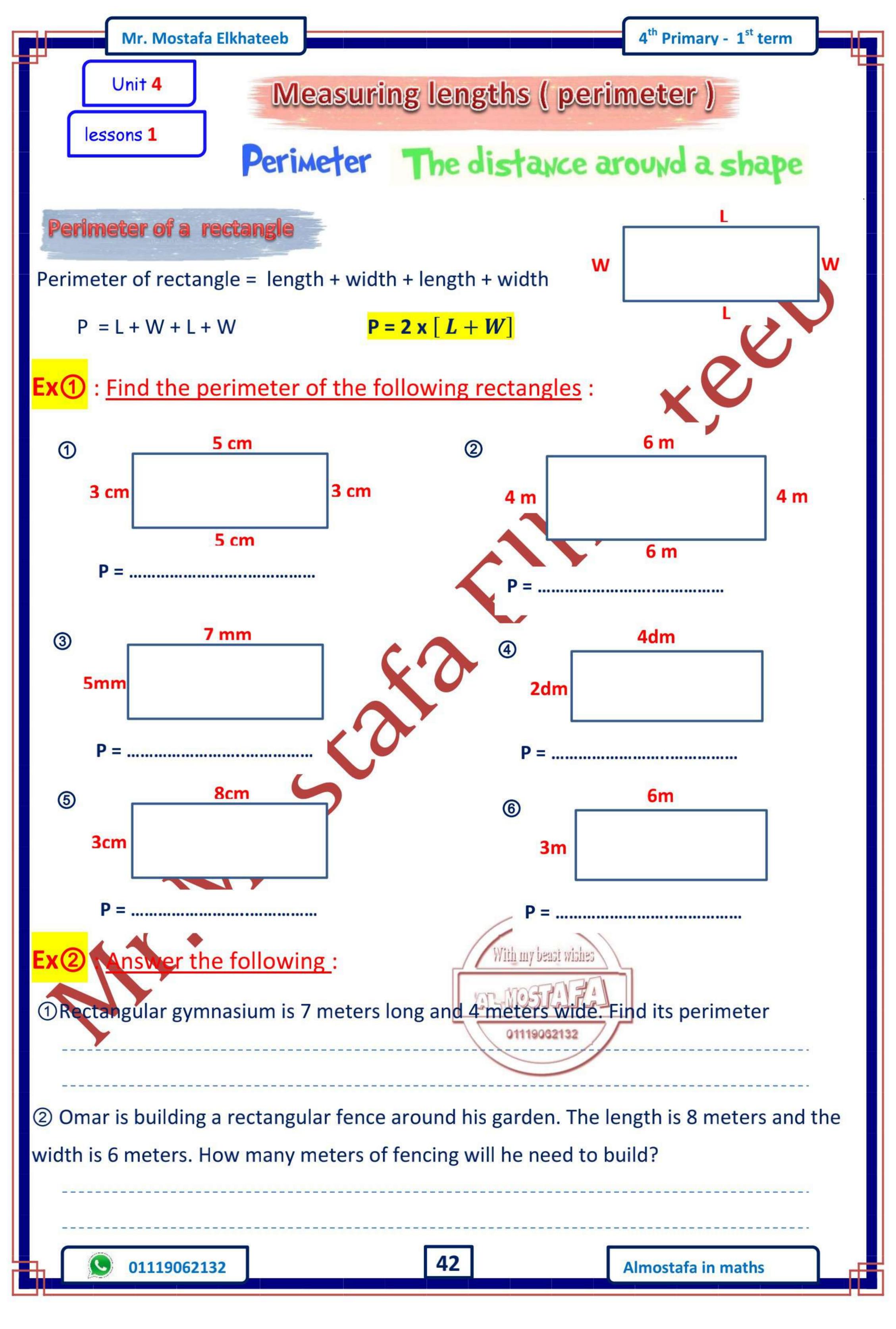
# Measuring the world around me Part 1: use multiplying and division

① A colony of ants eats approximately 2,000 grams of food each day. If the ants have 10
kilograms of food stored, how many days will the food last?
② Ants walk about 5,000 meters each day. How many kilometers do ants walk in 6 days?
③A water purifier cleans 10 L, 50 mL of water each day. How much water will be cleaned
by the cleaner in 10 days?
Exercise 1
Sara travelled 9 days continuously. She travelled 5,000 meters each day. How many
kilometers did she walk in all?
01319052132

# 1) Answer the following:



① An ant may walk up to 5 km per day. If the ant continues this for 20 days, how many meters will the ant walk?
②Ehab is a weightlifter. He has a mass of 100 kilograms. His aim is to gain 500 grams per week. If he does that for 5 weeks, what will his mass be at the end?
③ Ayman is a runner. While Ayman is in training, he needs to drink 500 milliliters of water 4 times per day. How many liters of water will that be for 1 week?
(4) Samira is studying for an upcoming math test. If she studies for 30 minutes a day, how many hours will she have spent studying in 8 days?

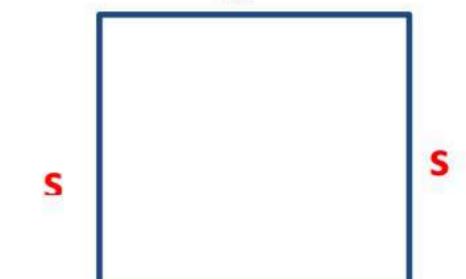


#### Perimeter of a square

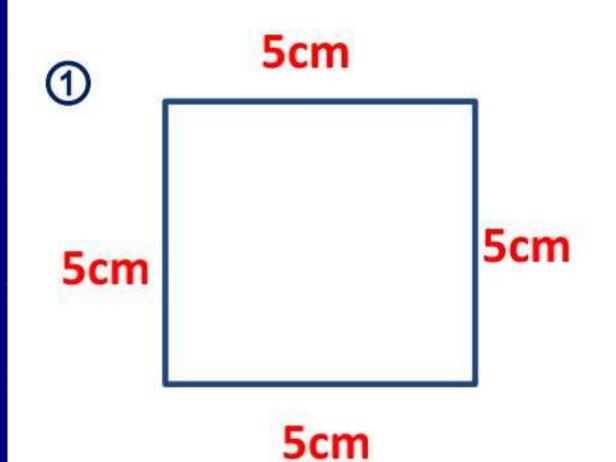
Perimeter of a square = Side + Side + Side + Side

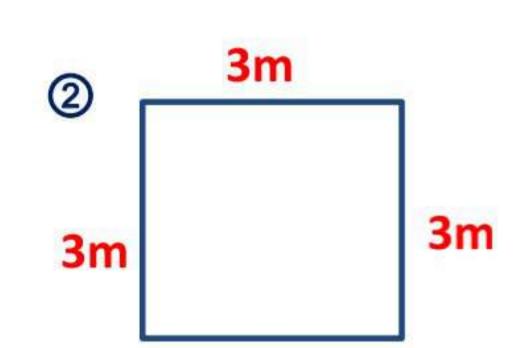
P = S + S + S + S

 $P = 4 \times S$ 

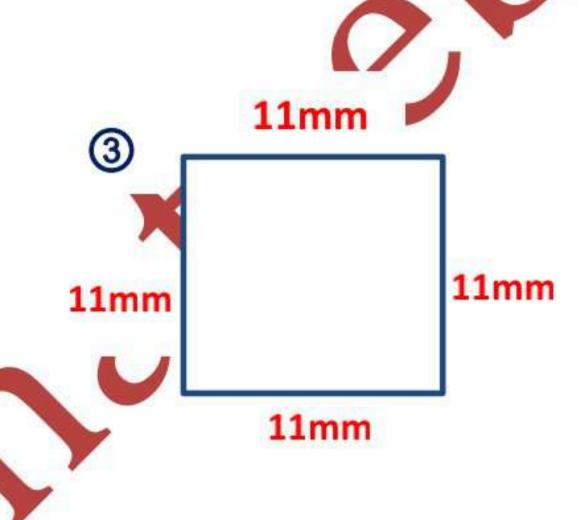


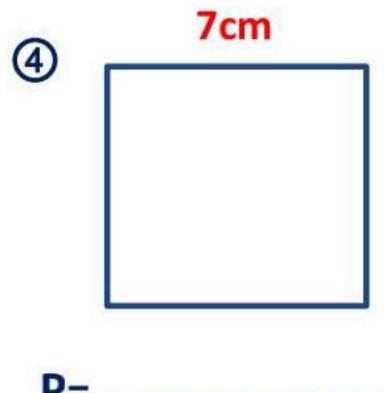
**Ex**(1): Find the perimeter of the following squares:

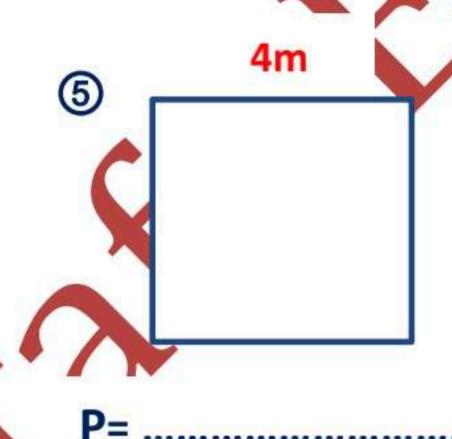


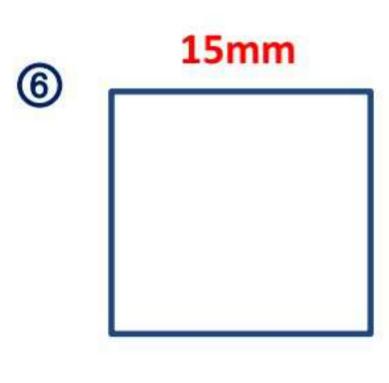


3m









# Ex2 : Answer the following:

①Sarah is putting a border around the edge of a square cake. One side of the cake is 30 centimeters long. How long will the border of Sarah's cake be?

②Sherif is building a square picture frame. Each side will be 36 millimeters long. What will

the perimeter of the frame be?

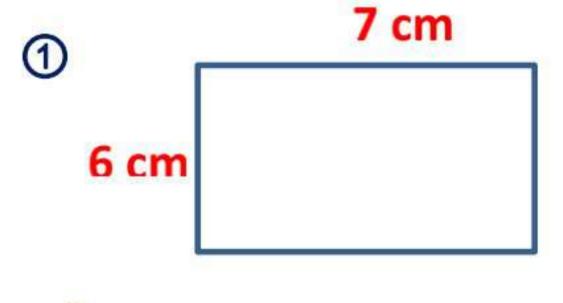
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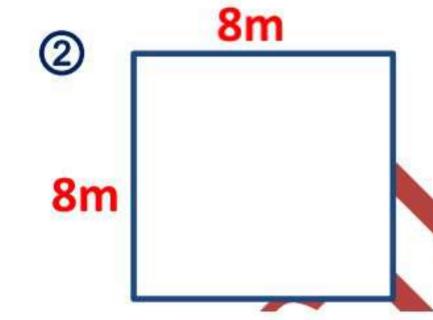
# 1) Complete the following:

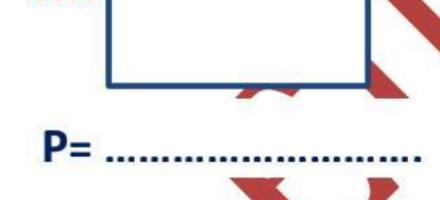
15

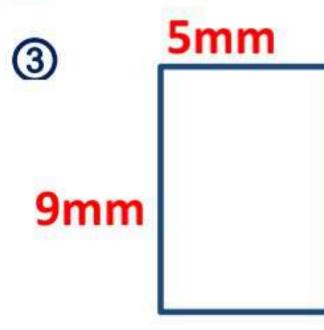
- ① A rectangle of 7 m length and 5 m width, its perimeter is ......
- ② A rectangle is 8 m long and 5 m width, its perimeter is ......
- 4 A square of side length 20 cm, its perimeter is ......
- ⑤ The perimeter of a square of side length 6 m is ......
- (2) Find the perimeter of the following:











#### 3 Choose the correct answer:

- ① A rectangle its length is L and its width is W What is it perimeter?
  - A. L+w

- B. L x W
- C. 2x [L + W]
- D. [2 x L]+w
- ② Which two choices show the formula for the perimeter of a rectangle?
  - A. P=2x(L+w)
- B. P=4×L
- C. P=L +W +L+W
- D. P = [2x L] x [2xW]
- ③ Which choice shows the formula for the perimeter of a square?
  - A. P=4+S
- B. P=4xS
- C. P=S x S

- D. P=S + S
- 4 The perimeter of a rectangle with two dimensions 10 cm and 5 cm is
  - A. 15 cm
- B. 30 cm
- C. 50 cm
  With my beast wishes

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D. 45 cm

- (5) A square of side length 7 cm, its perimeter = ..........
  - A. 11 cm

B. 21 cm

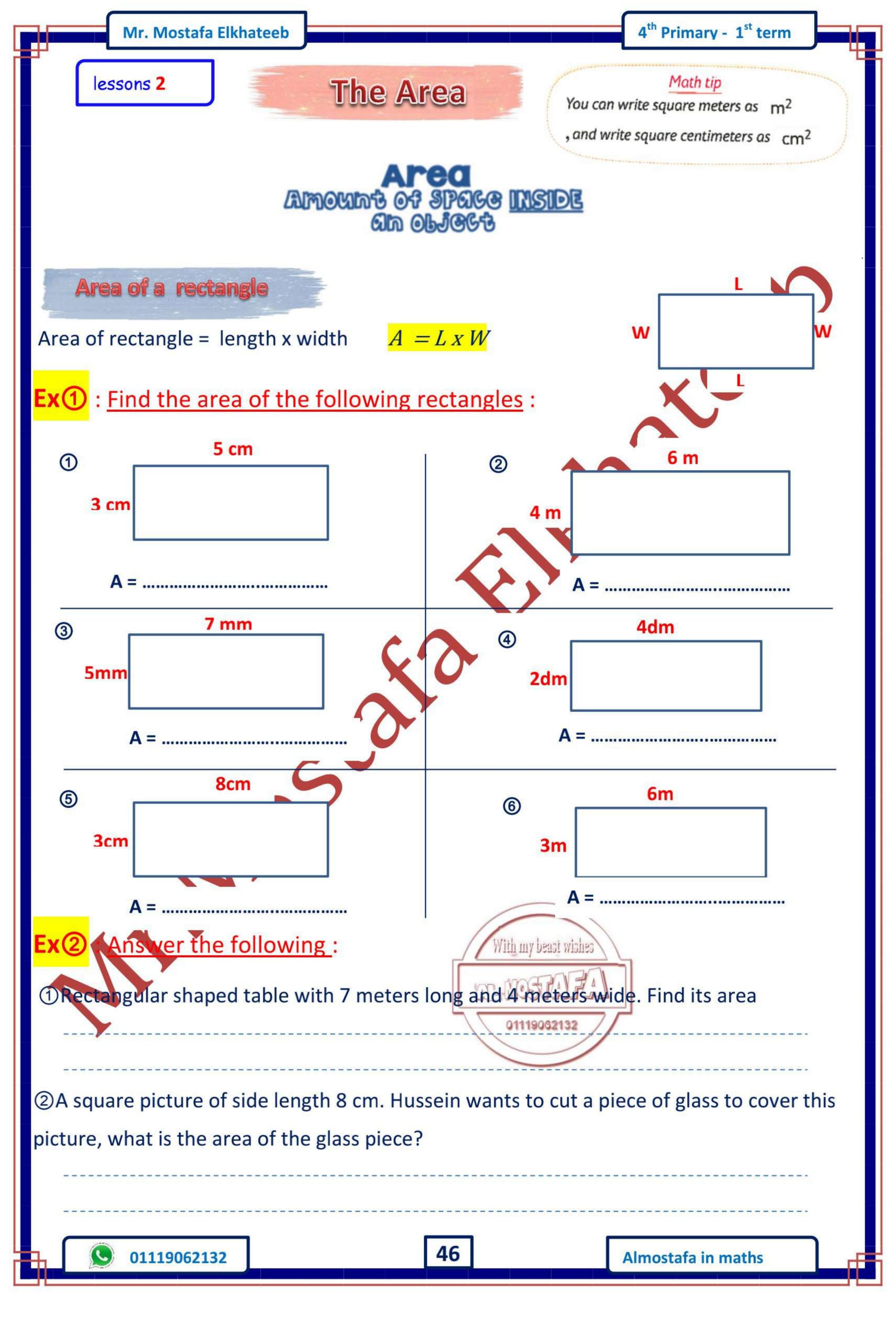
cm D. 49 cm

#### 4 Answer the following questions:

①Rectangular piece of land is 8 meters long and 6 meters wide. Find its perimeter

\_\_\_\_\_\_\_





# Exercise 1

#### Find the perimeter and the area of the following:

3 cm

P = .....

10m 10m

A = .....

3 5m
101

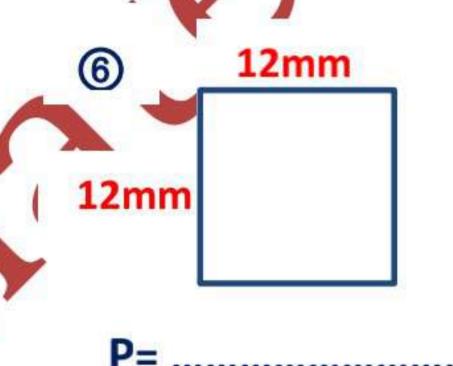
\ = .....

4 7 mm
3mm

Δ =

4cm
4cm

A = .....

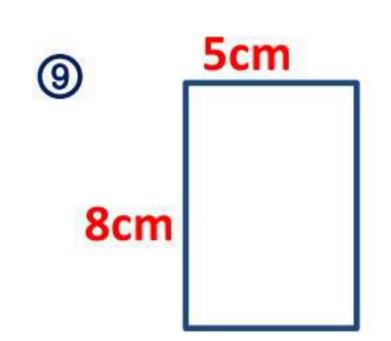


A = .....

9cm 8cm

6cm 6cm

A = .....



A = .....

# Exercise 2

#### Complete the following:

- ②A rectangle its width is 4 cm and its length is 6 cm, then its area is ......
- 3 The length of a rectangle is 10 mm and the width is 8 mm, then the area equals ...........
- (4) A square whose side length is 4 meters, then its area is ......
- ⑤A side length of a square is 10 cm, its area is ......
- ⑥A square of side length 9 cm, its area is ......

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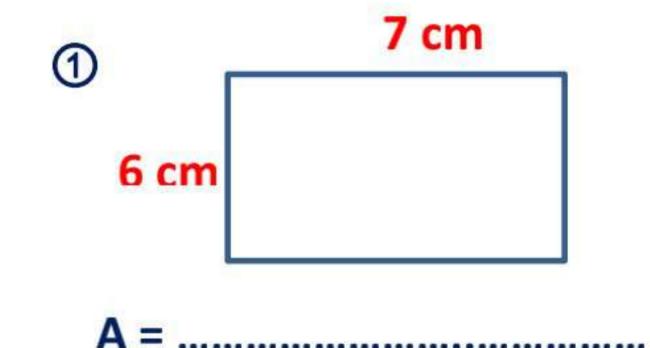
48

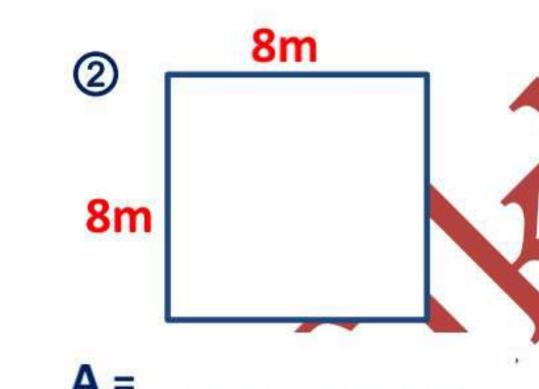
# 1) Complete the following:

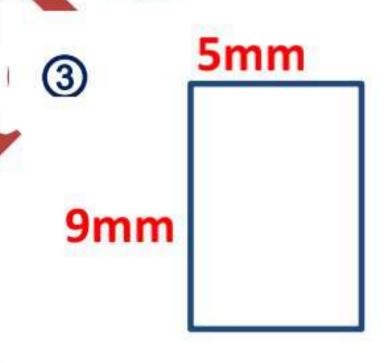
15

- ① A rectangle of 7 m length and 5 m width, its area is ......
- ② A rectangle is 8 m long and 5 m width, its area is ......
- ③ The area of a rectangle of 15 mm length and 5 mm width is ......
- 4 A square of side length 10 cm, its area is ......
- ⑤ The area of a square of side length 6 m is ......

#### 2 Find the area of the following:







#### (3) Choose the correct answer:

- 1 A rectangle its length is L and its width is W What is it area?
  - A.L+w

- B. Lx W
- C. 2x [L + W]
- D. [2 x L]+w
- ② Which two choices show the formula for the area of a rectangle?
  - A. A=2x(L+w)
- B. A=4×L
- C. A=L x W
- D. A = [2x L] x [2xW]
- ③ Which choice shows the formula for the area of a square?
  - A. A=4+S

- B. A=4xS
- C. A=S x S

- D. A=S + S
- - A. 15 cm
- B. 30 cm
- C. 50 cm
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D. 45 cm

- ⑤A square of side length 7 cm, its area = ........
  - A. 11 cm

B. 21 cm

D. 49 cm

#### 4 Answer the following questions:

A small rectangular ant farm measures 20 centimeters by 8 centimeters. What is the area of the ant farm?

------



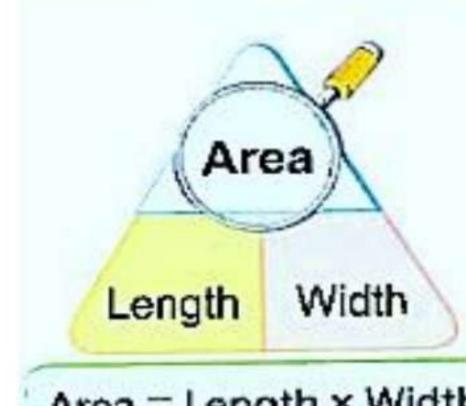
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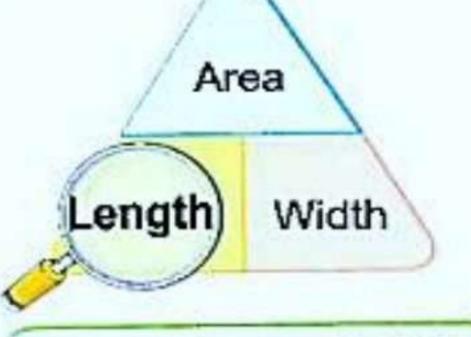
lessons 3

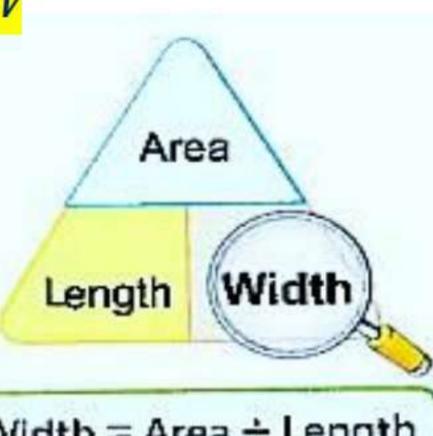
# Unknown Dimensions

Area of rectangle = length x width









Area = Length × Width

 $A = L \times W$ 

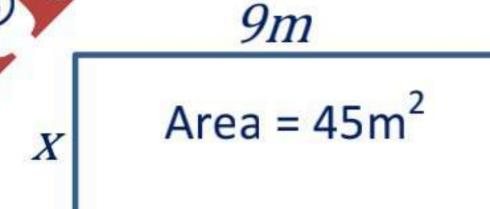
$$L = A \div W$$

$$W = A \div L$$

Ex①: Find the unknown side (x) in each of the following:

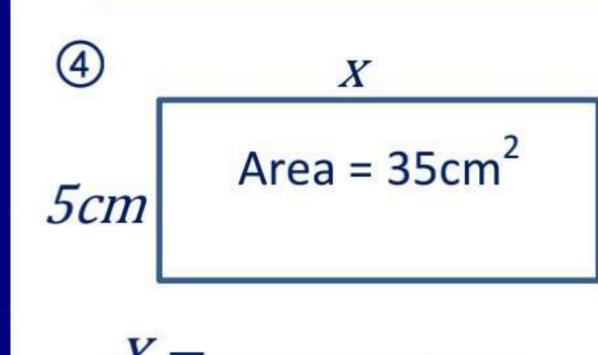
$$6cm$$
Area =  $18cm^2$ 

$$\begin{array}{c|c}
\hline
2 & 7cm \\
\hline
X & Area = 28cm^2
\end{array}$$



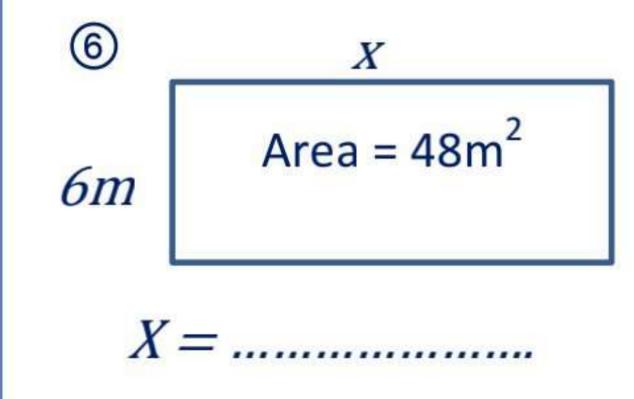
$$X = \dots$$

$$X = \dots$$



Area = 
$$24 \text{cm}^2$$

$$X = X$$



- ② A rectangle of area 24 cm² and its width is 4cm , then its length equal ......

# Exercise 1

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(1) 8cmArea =  $32cm^2$ 

$$\begin{array}{c|c}
\hline
2 & 7cm \\
\hline
 & Area = 42cm^2
\end{array}$$

$$8m$$

$$X = 56m^2$$

 $X = \dots$ 

$$X = .....$$

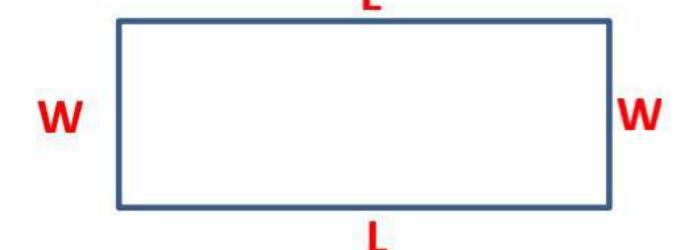
$$X = \dots$$

0

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50

#### Perimeter of a rectangle



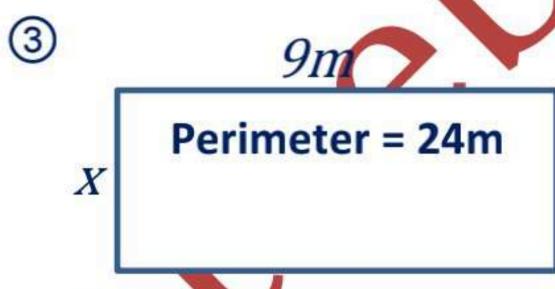
$$P = 2 \times [L+W]$$

$$L = \frac{1}{2}P - W$$

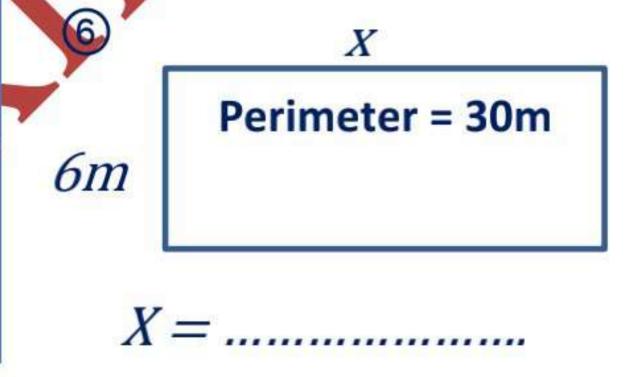
$$W = \frac{1}{2}P - L$$

# **Ex** $\mathfrak{O}$ : Find the unknown side (x) in each of the following:



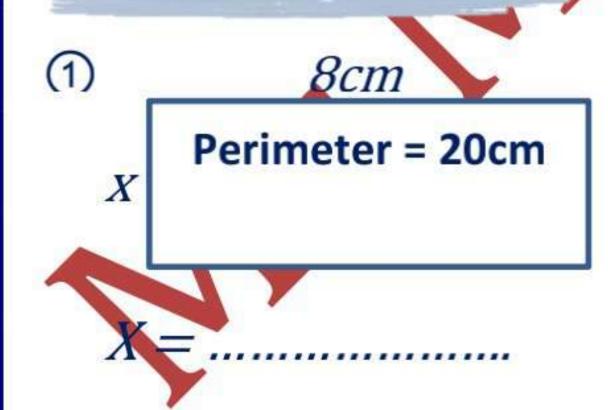


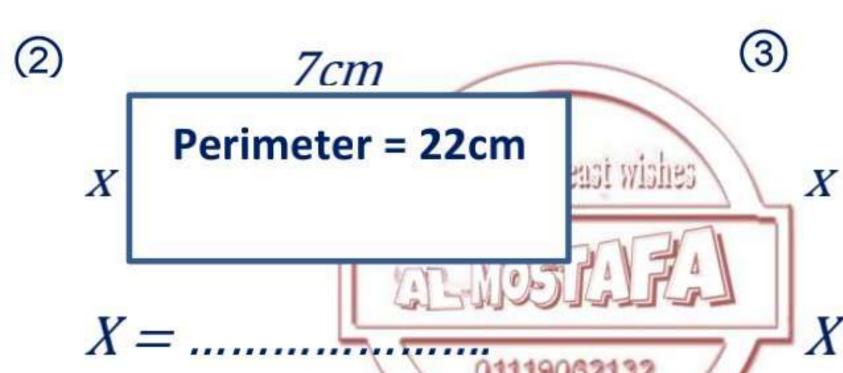
$$X = \dots$$

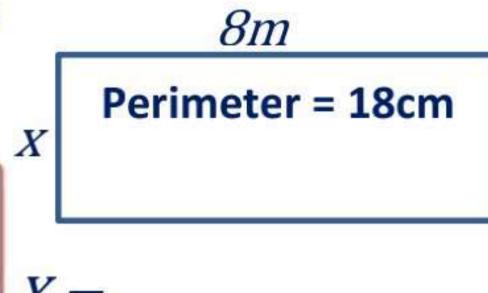


- ②A rectangle of perimeter 24 cm and its width is 4cm , then its length equal ......

# Exercise 1







- (4) A rectangle of perimeter 20 cm and its width is 4cm, then its length equal ......
- ⑤A rectangle of perimeter 18 cm and its length is 8cm , then its width equal ......

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#### Area of a square

$$A = S \times S$$

#### perimeter of a square

$$P = 4 \times S$$

$$S = P \div 4$$

# Ex①: Find the side length of the following squares:

1



2

2

4

**(5)** 

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6

- 7 A square of area 49cm<sup>2</sup>, then its side length = .....
- ®A square of perimeter 24cm, then its side length = .....
- (9) A square of area 81m<sup>2</sup>, then its side length = ......

# Exercise 1



- ②A square of perimeter 24cm, then its side length = .....
- 3 A square of area 81m², then its side length = .....
- (4) A square of perimeter 36cm, then its side length = ......
- ⑤ A square has an area of 36 square centimeters, then its perimeter is ......



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#### 1) Complete the following:

15

1 A square is of area 49 km<sup>2</sup>, then its side length is .....

② The perimeter of a square is 36 cm, then the length of its side is ......

3 A square has a perimeter 12 cm, then its area is ......

4 A square has an area of 16 square centimeters, then its perimeter is ......

® A rectangle has perimeter 32 m, and its length is 9 m, then its area is ......

#### 2 Choose the correct answer:

① A rectangle of area 32cm2 and its length is 8cm then its width = ......

A. 4

B. 8

C. 18

D. 256

②A square of area 100cm2 , then its side length = .....

A. 4

B. 6

C 8

D. 10

③ Which choice shows the formula for the side length of a square?

A. S=4+ A

B S P x4

C.  $S=A \times P$ 

D.  $S=P \div 4$ 

(4) A rectangle of perimeter 27cm and its width is 3cm, then its length = ......

A. 15 cm

B. 9 cm

C. 5 cm

D. 81 cm

A. 11 cm

B. 12 cm

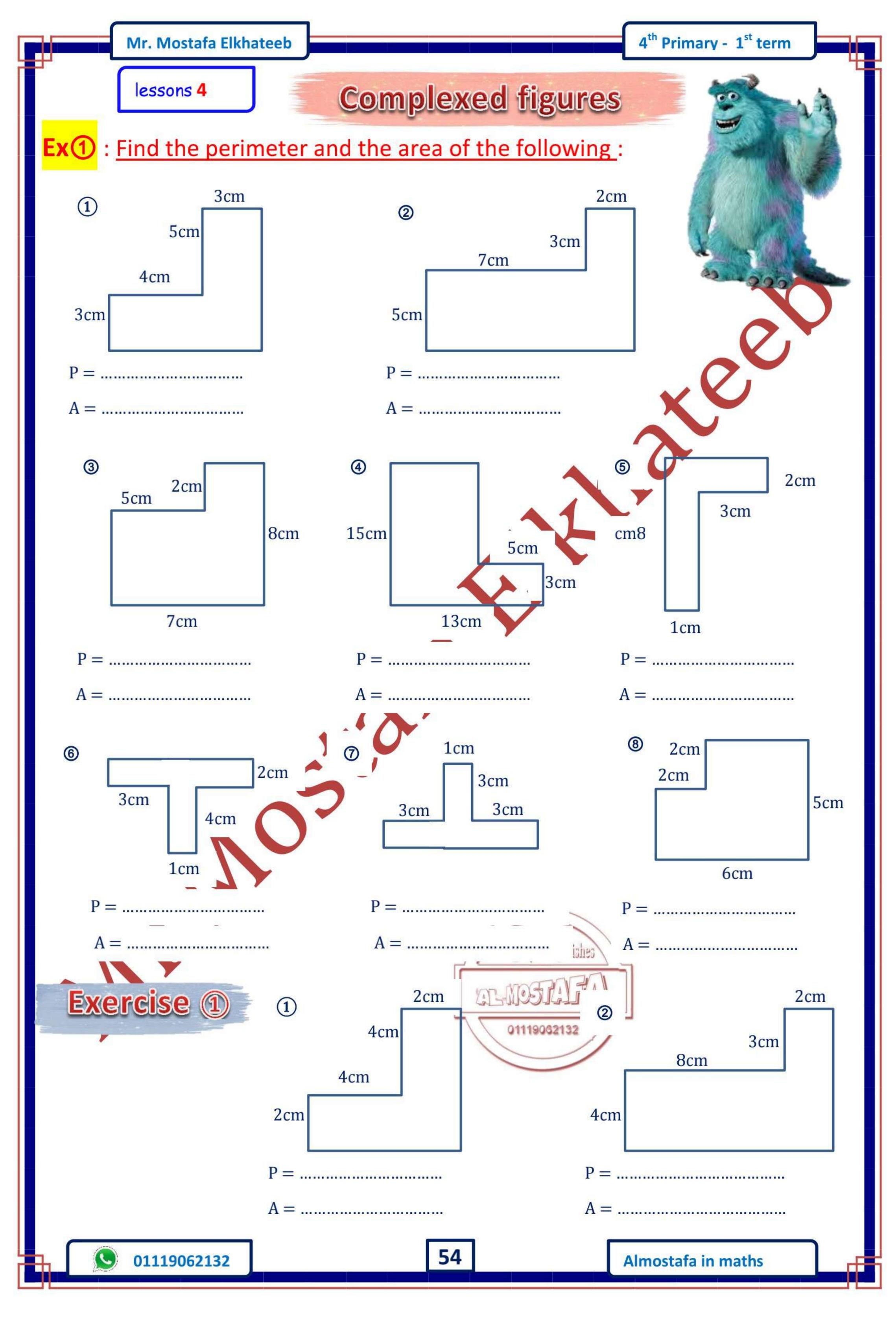
c. 28 cm

D. 44 cm

#### 4) Answer the following questions:

A rectangular flowerbed in the city park has an area of 12 square meters. The width of the flowerbed is 3 meters. What is the length of the flowerbed?

\_\_\_\_\_\_



Unit 5

lessons 1-3

# **OUnderstanding multiplicative**

#### comparison

Learn

You must memorize the multiplication table

15

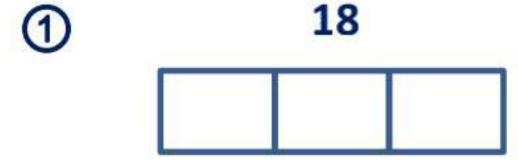


# Times = X

15 = 3 times the number 5

$$15 = 3 \times 5$$

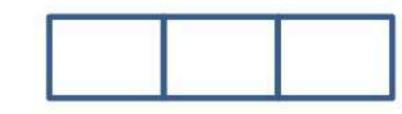
#### Ex ①: Fil in the blanks to complete:



18 = ..... times the number......



35



35 = ..... times the number.....

2

20 = ..... times the number.........

56

56 = ..... times the number.........

then 
$$24 = ..... \times 8$$

then 
$$48 = ..... \times 6$$

then 
$$10 = ..... \times 5$$

$$8$$
 If 5 x 6 = 30, then 30 is ..... times the number 6

(9) If 
$$8 \times 9 = 72$$
, then 72 is ...... times the number 8

① 
$$7 + 7 + 7 + 7 = 28$$
, then  $28 = \dots$ 

#### **Exercise** Choose the correct answer:





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② 12 is 3 times the number 4, then 12=..... [ 
$$1 \times 12$$
 ,  $2 \times 6$  ,  $3 \times 4$  ,  $2 + 10$  ]

$$[1 \times 12, 2 \times 6, 3 \times 4, 2 + 10]$$

(4) | 8 | 8 | 8 | 8 | 8 | =40 then 40 = ...... [ 
$$4 \times 10$$
,  $5 \times 8$ ,  $2 \times 20$ ,  $40 + 8$ ]



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- @Creating multiplicative comparison equation
- **Solving multiplicative comparison equation**

#### Ex①: wrire the equation of the following:

- ①If 2 times the number 4 equal  $\alpha$ , then the suitable equation is  $2 \times 4 = \alpha$

- ⑤If 3 times the number 6 equal k, then the suitable equation is ...

#### Ex②: Find the value of the unknown:-

- ①If 3 times the number 4 equal  $\alpha$ , then the value of  $\alpha = \dots$
- ②If 5 times the number 8 equal b, then the value of  $b = \dots$
- ③If 6 times the number x equal 42, then the value of  $x = \dots$
- (4) If 4 times the number y equal 36, then the value of  $y = \dots$
- ⑤ If n times the number 8 equal 24, then the value of  $n = \dots$
- ⑥If 7 times the number 4 equal c, then the value of  $c = \dots$

#### Exercise

- 3 If 4 times the number x equal 24, then the suitable equation is 0.5.
- (4) If 6 times the number y equal 48, then the value of y = 0.0.01119062132
- ⑤If n times the number 4 equal 28, then the value of  $n = \dots$
- ⑥If 5 times the number 6 equal c, then the value of  $c = \dots$

# Ex①: Solve the following equations:

① 
$$7 \times n = 28$$

② 
$$5 x y = 0$$

$$3m \times 9 = 36$$

$$4)$$
 7 x 8 = h

$$5 k x 10 = 80$$

$$604 \times 12 = b$$

$$76 \times 9 = a$$

$$82 x r = 18$$

$$96xc = 42$$

① 
$$d \times 5 = 25$$

① 
$$e \times 4 = 16$$

① 
$$7 \times j = 49$$

# Ex②: Choose the correct answer

①If 
$$4 \times n = 8$$
, then  $n = \dots$ 

②If 
$$6 \times x = 36$$
, then  $x = ...$ 

(4) If 
$$3 \times 9 = f$$
, then  $f = 1$ ......

(5) If 
$$7 \times n = 7$$
, then  $n = .....$ 

# **Exercise**

Off 
$$3 \times n = 6$$
, then  $n = \dots$ 

②If 
$$4 \times y = 36$$
, then  $y = .....$ 

③If 
$$m \times 8 = 64$$
, then  $m = .....$ 

(4) If 
$$4 \times 11 = f$$
, then  $f = .....$ 

(5) If 
$$7 \times n = 0$$
, then  $n = \dots$ 

# (1) Complete the following:

- ①If 3 times the number 9 equal  $\alpha$ , then the value of  $\alpha = \dots$
- ③If 5 times the number x equal 5, then the value of  $x = \dots$
- (4) If 4 times the number y equal 48, then the value of  $y = \dots$
- © If 7 times the number 8 equal c, then the value of  $c = \dots$
- (8) If 5 times the number 9 equal b, then the value of  $b = \dots$
- (9) If 1 times the number x equal 23, then the value of  $x = \dots$
- @If 9 times the number y equal 81, then the value of  $y = \dots$

# 2 Choose the correct answer:

①If  $m \times 6 = 66$ , then m = 4....

[ 3 , 14 , 11 , 32 ]

②If  $7 \times 0 = f$ , then  $f = \dots$ 

[ 0 , 1 , 7 , 70 ]

3 If  $15 \times n = 0$ , then  $n = \dots$ 

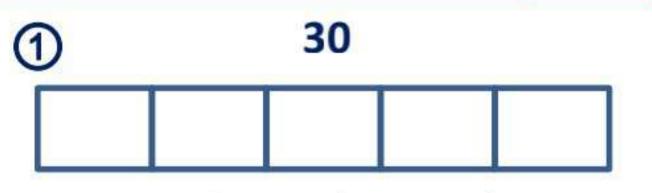
[ 0 , 1 , 15 , 150 ]

(4) If  $15 \times n = 0$ , then n = .....

- [ 0 , 1 , 15 , 150 ]
- - $[9+3=a, 9-3=a, 9\times 3=a, 9\times 3=a]$









27 = ..... times the number..........

30 = ..... times the number.........

30 = ..... x .....

27 = ..... x ......



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lessons 4&5

# @Commutative property of multiplication

#### Learn



# Properties of multiplication

#### Commutative

Multiply two
numbers in any
order will get the
same product

$$3x7 = 7x3 = 21$$

multiplicative identity

Multiply any number by 1 will get the same number

$$8 \times 1 = 1 \times 8 = 8$$

The multiplicative identity is one (1)

Multiplying by zero

Multiply any number by zero will get zero

$$0 \times 5 = 0$$

$$8 \times 0 = 0$$

#### Ex①: Complete the following:

① 
$$5 \times 7 = \dots \times 5$$

$$2 \times 8 = 8 \times \dots$$

$$3.... \times 4 = 4 \times 9$$

$$9 \times \dots = 8 \times 9$$

$$54 \times 6 = 6 \times \dots$$

$$6 \dots \times 3 = 3 \times 5$$

(8) 
$$3 \times \dots = 0$$

$$9....\times 4 = 4$$

$$6 \times 12 = \dots \times 6$$

$$(2)$$
 × 15 = 15

#### Ex② Choose the correct answer:

① 
$$9 \times 12 = 12 \times 9$$
 is ......properity

[Commutative multiplicative identity, Multiplying by zero, non of the previous]

② 
$$7 \times 1 = 7$$
 is ......properity

Commutative, multiplicative identity, Multiplying by zero, non of the previous]

$$3 6 \times 0 = 0$$
 is ......properity

[Commutative, multiplicative identity, Multiplying by zero, non of the previous]

$$4 \times 6 = 3 \times 8$$
 is .....properity

[Commutative, multiplicative identity, Multiplying by zero, non of the previous]



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# Multiplying by 10 , 100 and 1,000

#### Learn

$$5 \times 10 = 50$$

$$14 \times 100 = 1,400$$

# $120 \times 1,000 = 120,000$

#### Ex①: Complete the following:

① 
$$5 \times 10 = \dots$$

$$4) 19 \times 10 = \dots$$

$$\bigcirc$$
 5 × ..... = 5,000

② 
$$3 \times 100 = \dots$$

⑤..... 
$$\times 6 = 60$$

① 
$$35 \times 100 = \dots$$

$$3..... \times 1,000 = 3,000$$

$$6 \dots \times 32 = 320$$

$$9....\times 14 = 1,400$$

$$235 \times 1,000 = \dots$$

# Exercise

#### **①Complete the following:**

① 
$$3 \times 7 = \dots \times 5$$

$$4) 2 \times ... = 8 \times 0$$

$$9 \times ... = 0$$

① 
$$18 \times 10 = \dots$$

$$10 \times 10 =$$

(2) 
$$4 \times 8 = 8 \times \dots$$

① 
$$30 \times 100 = \dots$$

$$\textcircled{4} 10 \times 100 = \dots$$

$$3..... \times 7 = 7 \times 9$$

$$6)....\times 3 = 3$$

$$9.... \times 1 = 0$$

$$10 \times 1,000 = \dots$$

#### 2 Choose the correct answer:

①..... 
$$\times 6 = 600$$

② 
$$7 \times ... = 7,000$$

③ 
$$185 \times ... = 18,500 ...$$

$$4150 \times ... = 15,000...$$

$$419,000 = .... \times 19$$

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# 1) Complete the following:

① 
$$3 \times 4 = \dots \times 3$$

$$(4)$$
 2 × ..... = 3 × 0

① 
$$72 \times 10 = \dots$$

$$11 \times 10 = \dots$$

$$60500 \times 10 = \dots$$

(2) 
$$6 \times 8 = 8 \times \dots$$

(5) 
$$0 \times 6 = 5 \times \dots$$

① 
$$100 \times 100 = \dots$$

$$\textcircled{4} 60 \times 100 = \dots$$

$$(3)$$
.....  $\times 7 = 7 \times 2$ 

$$6 \dots \times 42 = 42$$

$$9.... \times 10 = 260$$

$$\textcircled{12} 63 \times 1,000 = \dots$$

$$(5)$$
  $20 \times 1,000 = ....$ 

$$1345 \times 1,000 = \dots$$

#### ② Choose the correct answer :

①..... 
$$\times 2 = 200$$

② 
$$3 \times ... = 3,000$$

$$355 \times ... = 5,500 \dots$$

$$4720 \times ... = 72,000...$$

$$(5)38,000 = .... \times 38$$

$$617 \times 7 = 7 \times \dots$$

$$7 13 \times 9 = \dots \times 13$$

$$8456 \times ... = 4,560$$

$$932,100 = 321 \times ...$$

$$0 0 \times 7 = 9 \times \dots$$

$$[3 \times 5 = 15, 4 \times 6 = 6 \times 4, 3 + 2 = 2 + 3, 5 \times 0 = 0]$$

What disappears

as soon as you say its name?



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62

lesson 6

# Associative property of multiplication

#### Learn

# Associative property

$$= (3 \times 2) \times 5$$

$$6 \times 5 = 30$$





3 X 2 X 5

 $= 3 \times (2 \times 5)$ 

 $3 \times 10 = 30$ 

# Ex①: Complete the following:

① 
$$(3 \times 2) \times 6 = \dots \times 6$$

$$34 \times (3 \times 5) = 4 \times \dots$$

$$54 \times 5 \times 6 = 4 \times (5 \times ...)$$

$$9(7 \times 8) \times 5 = 7 \times (... \times 8)$$

$$(2 \times 5) \times 7 = \dots \times 7$$

$$(4)$$
  $(4 \times 3) = 8 \times ...$ 

$$63 \times 4 \times 8 = 3 \times (4 \times ...)$$

$$86 \times 8 \times 9 = (\dots \times 8) \times 9$$

#### **Answer the following:**

Aisha bought 3 packs of water bottles. Each pack had 3 rows of 4 water bottles. How many water bottles did Aisha buy?

#### Exercise Choose the correct answer:

① 
$$(7 \times 2) \times 9 = \dots \times 9$$

$$2(4 \times 2) \times 8 = \dots \times 8$$

$$36 \times (2 \times 5) = 6 \times \dots$$

$$4 \times (2 \times 3) = \dots \times 6$$

$$\textcircled{5}3 \times 3 \times 7 = 3 \times (\dots \times 7)$$

$$62 \times 4 \times 8 = 2 \times (4 \times ...)$$

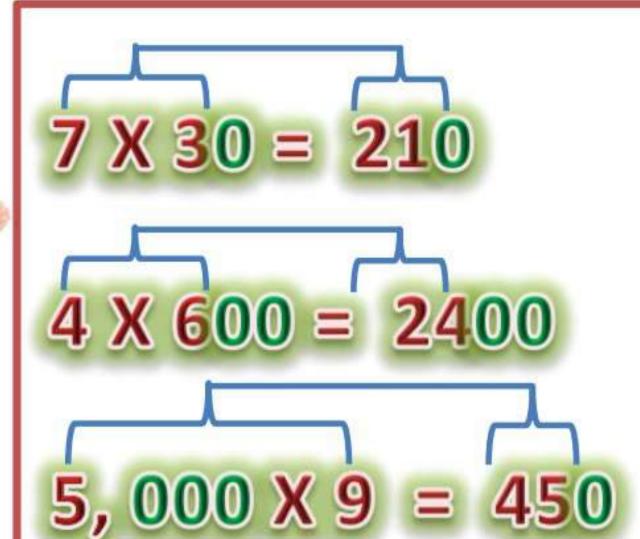
# [ 7, 2, 9, 14] [ 4, 2, 8, 16] [ 5, 2, 6, 10] [ 2, 3, 5, 30] [ 7, 3, 10, 21]

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#### Learn

# Decomposing and Associative property





we use the fact 7X3=21

we use the fact 4X6=24

we use the fact 5X9=45

#### Ex①: Complete the following:

① 
$$5 \times 60 = \dots$$

$$54 \times 700 = \dots \dots$$

$$\bigcirc 6 \times 700 = 6 \times 7 \times ...$$

$$97 \times 8,000 = \dots \dots$$

② 
$$2 \times 70 = ... ...$$

$$4)$$
  $8 \times 30 = ...$ 

$$63 \times 400 = \dots \dots \dots$$

#### **Answer the following:**

Hany works 20 hours a week. If he makes L.E. 6 per hour. How much does Hany make in two weeks?

# **Exercise** choose the correct answer:

$$24 \times 800 = ... ...$$

$$36 \times 30 = 6 \times 3 \times \dots$$

$$4 ext{ } 56,000 = \dots \times 8 \times 1,000$$

$$\mathfrak{5}3,600 = 4 \times 9 \times \dots$$

$$63 \times 500 = 15 \times \dots$$

$$7 \times 3 \times 100 = 7 \times \dots$$

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# 1) Complete the following:



$$3 \times (3 \times 7) = 3 \times \dots$$

$$53 \times 4 \times 8 = 3 \times (4 \times \dots)$$

$$7 6 \times 60 = \dots$$

$$92 \times 4,000 \times ...$$

#### (2) Choose the correct answer:

① 
$$3 \times 20 = \dots$$

$$24 \times 500 = \dots$$

$$39 \times 30 = 9 \times 3 \times \dots$$

$$4)$$
 18,000 = .....  $\times$  9  $\times$  1,000

$$\mathfrak{5}2 \times 6 \times 7 = 2 \times (\dots \times 7)$$

$$65 \times 6 \times 7 = 5 \times (6 \times ...)$$

② 
$$(3 \times 5) \times 9 = \dots \times 9$$

$$9 \times (4 \times 2) = 9 \times \dots$$

$$67 \times 5 \times 6 = 7 \times (5 \times ...)$$

$$8 \times 700 = \dots$$

$$0 8 \times 300 = 8 \times 3 \times \dots$$

# 3 Answer the following:

① Aya bought 5 packs of juice bottles. Each pack had 2 rows of 4 juice bottles. How many juice bottles did Aisha buy?

Andy runs 2 kilometers a day. If she runs five days a week. How many kilometers does she

run in 10 weeks?

-----



D ? arat Das

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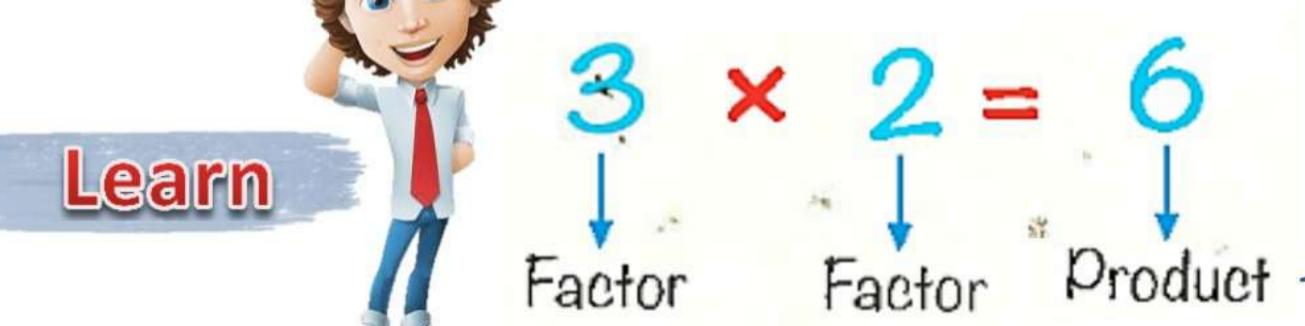


4<sup>th</sup> Primary - 1<sup>st</sup> term

Unit 6

lessons 1-2

-Identifying factors of whole numbers
-Prime and composite numbers

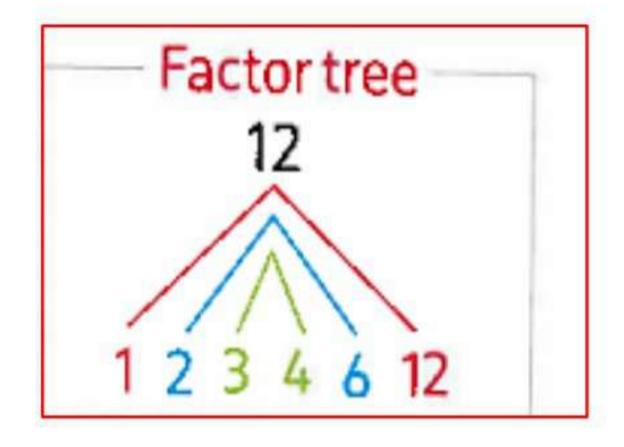


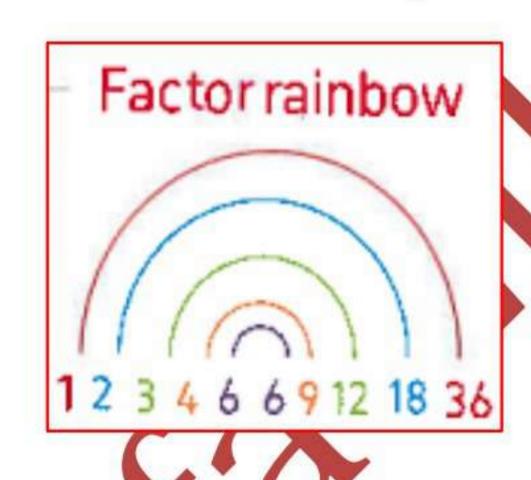
#### A factor is

a number multiplied by another number to get a product.

Ex: factors of 12 is 1X12 2X6 3X4, then 1,2,3,4,6 and 12 are all factors of 12

You can use one of this 3 ways to find all facors





Factor	T-chart
1	36
2	18
3	12
4	9
6	6

3

Ex: Find all factors of the following numbers:- (use any way)





28

0

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66

# **Exercise** Find all factors of the following numbers:- ( use any way )

(1)	15	2	20	3	30
15 h	as factor	20 h	nas factor	30 h	as factor
4	36	<u>(5)</u>	60	6	35
				M	
36 h	as factor	60 h	nas factor	35 h	as factor

# Notes

- OAny number is factor for itself
- 1 is factor for all numbers
- ① 2 is factor for all even numbers
- ⊙3 is factor for all numbers that the sum of its digit = 3,6,9,12,15,18,.....
- 5 is factor for the numbers its ones digit 0 or 5

# Example Choose the correct answer:-

- The number 8 has ..... factor.
- ③ 1,2,7,14 are all the factors of the number
- 4 the factor for all number is ......
- ©25 has ..... pairs of factor

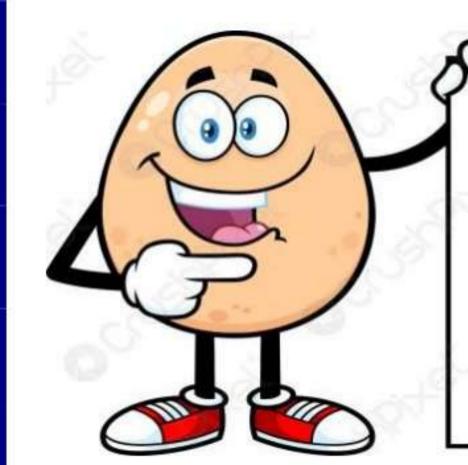




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#### Learn

# Prime and composite numbers

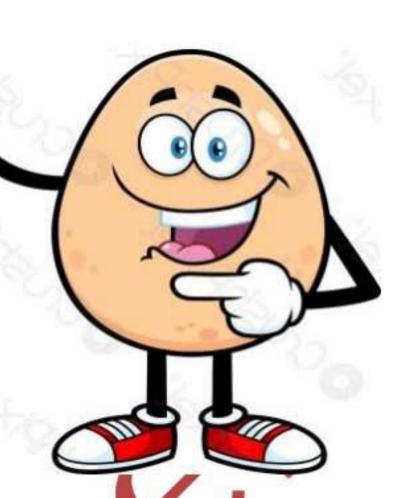


A prime number Is a whole number

has only 2 different factors 1 and itself

A composite number

Is a whole number greater than 1 has more than 2 factors



Ex: 2 = 1 X 2

Factor Factor the number 2 has only two factors so, 2 is a prime number

 $5 = 1 \times 5$ 

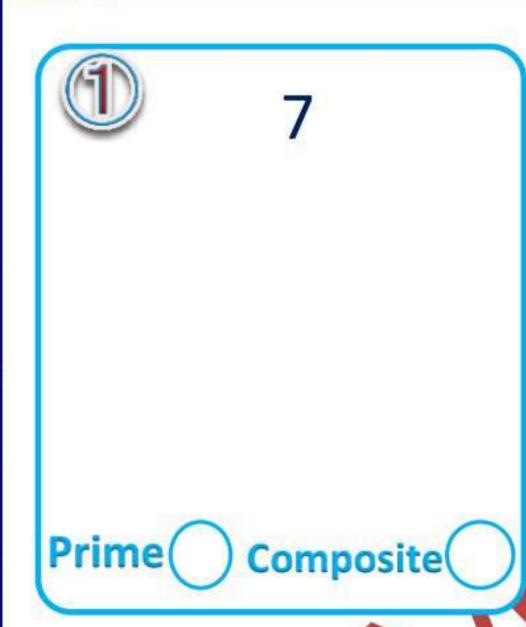
the number 5 has only two factors so, 5 is a prime number

10 = 1 X 10 and 2 X 5

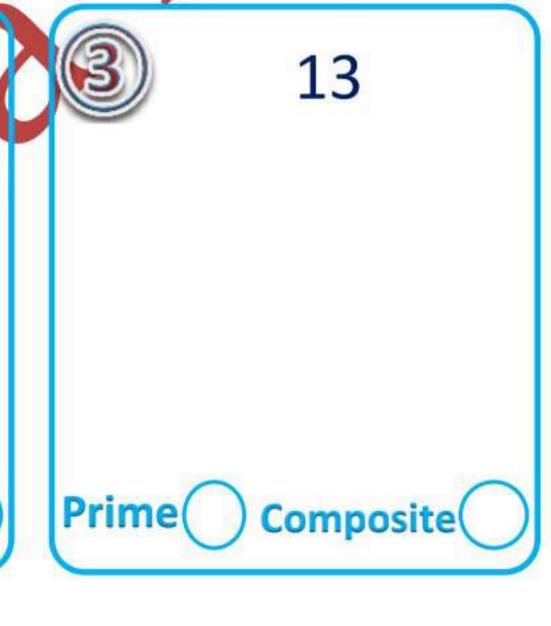
Factor Factor Factor

the number 10 has 4 factors (1,2,5,10)so, 10 is a composite number

Ex: Write all factors for each number, then check prime or composite









**Exercise** Write all factors for each number, then check prime or composite



a



12



20



17

Prime

Composite

Prime(

) Composite

Prime (

Composite (

Prime (

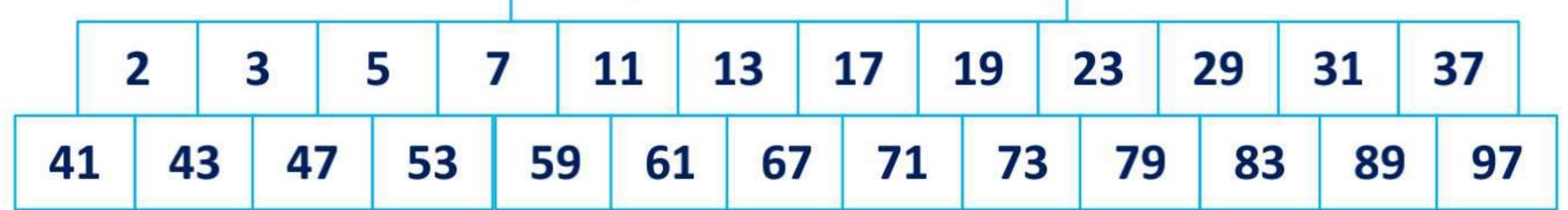
Composite(

0

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#### A prime number



Note

- 1 is neither prime nor composite because it has only one factor
- 2 is the smallest prime number
- All prime numbers are odd except 2

Exercise Choose the correct answer.

- ①.....is a prime number.
  - A. 9
- B. 16

D. 21

- ②.....is a prime number
  - A. 1

B. 6

D. 12

- ③..... isn't a prime number.
  - A. 1

B. 3

D. 7

- 4)..... is a composite number.
  - A. 1

C. 13

D. 15

- ⑤..... isn't a composite number.
  - A. 11

C. 14

D. 20

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- 6 The smallest prime number is ......

B. 1

- C. 2
- 7 The smallest odd prime number is ......

B. 1

- C. 2
- The prime number between 44 and 50 is......
  - A. 45
- B. 46

C. 47

قم بعمل هذه العملية الحسابية بعقلك فقط وبدون أستعمال الأوراق أو الآلة الحاسبة

لديك 1000 أضف 40 أضف 1000 أضف 30 أضف 1000 أضف 20 أضف 1000 ضف 10 ما هي النتيجة؟

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# (1) Choose the correct answer:-

②the number 12 has . . . . . . . . factor. [ 2 , 3 , 6 , 12 ]

③ 1,2,3,6,9,18 are all the factors of the number [ 1 , 2 , 7 14 ]

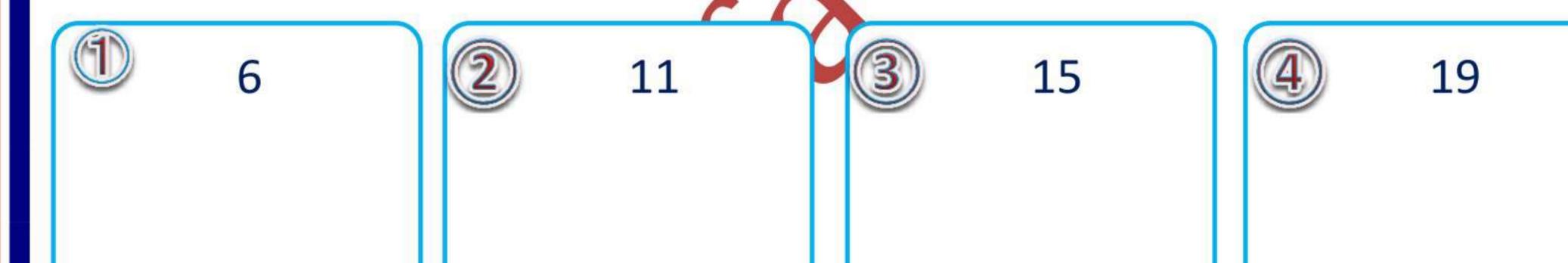
4 ..... is the factor for all number [0, 1, 2, 3]

⑤8 has ..... pairs of factor [2, 3, 6, 12]

① .....is a prime number [1, 13, 21, 27]

8 ..... isn't a prime number. [ 11 , 1 , 2 , 3 ]

# (2) Write all factors for each number, then check prime or composite



Prime Composite Prime Composite Prime Composite Composit



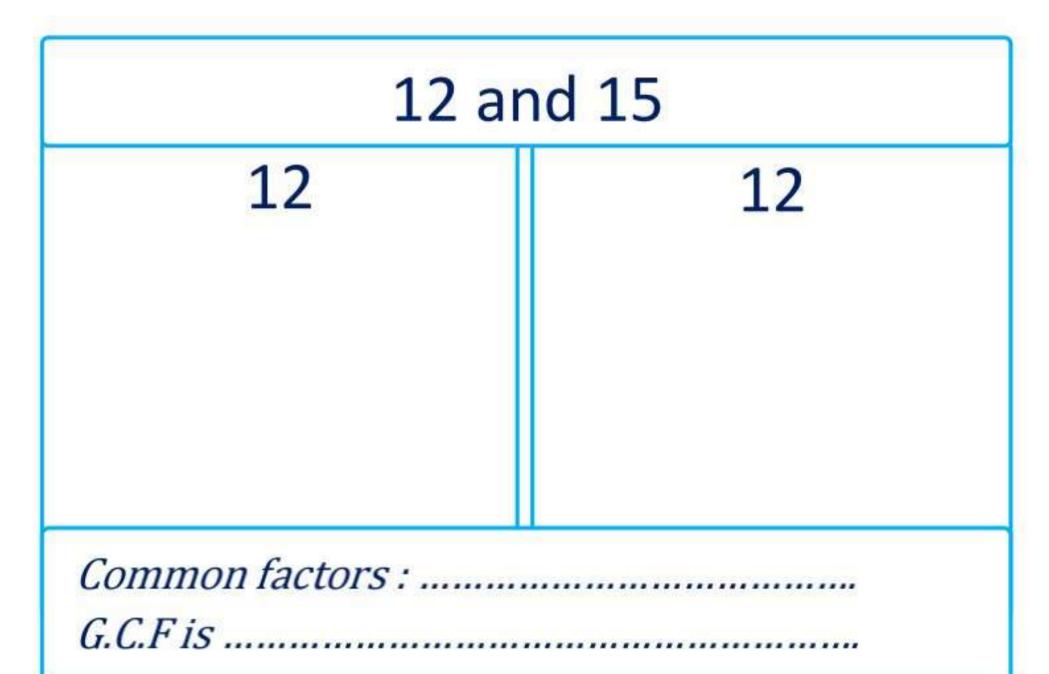
rime Composite Prime Composite Prime Composite Composite

lesson 3

# Greatest common factor (G.C.F)

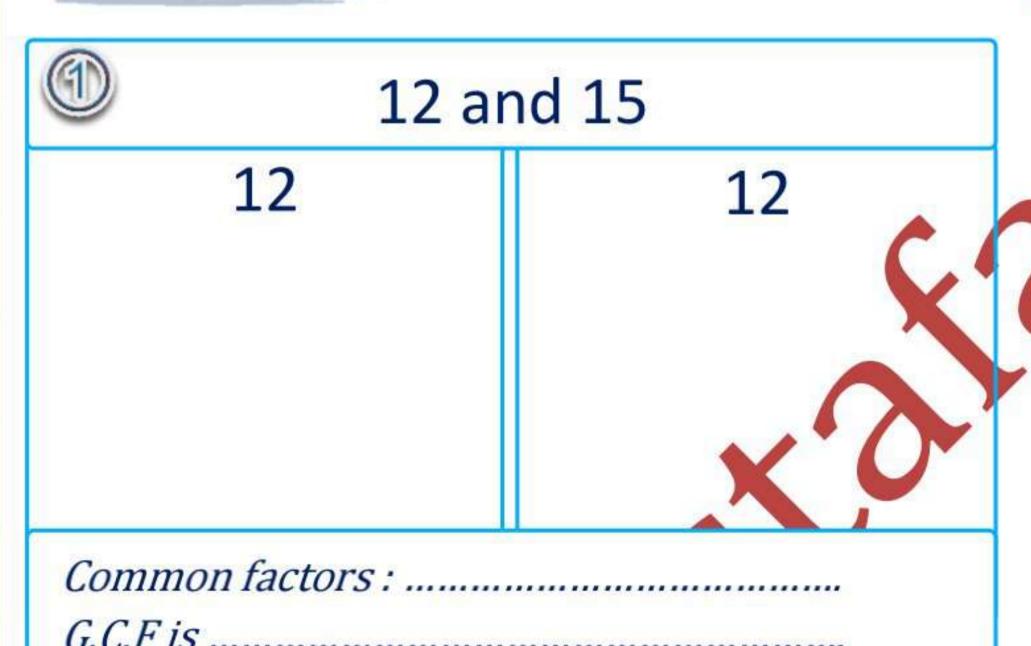
#### Learn

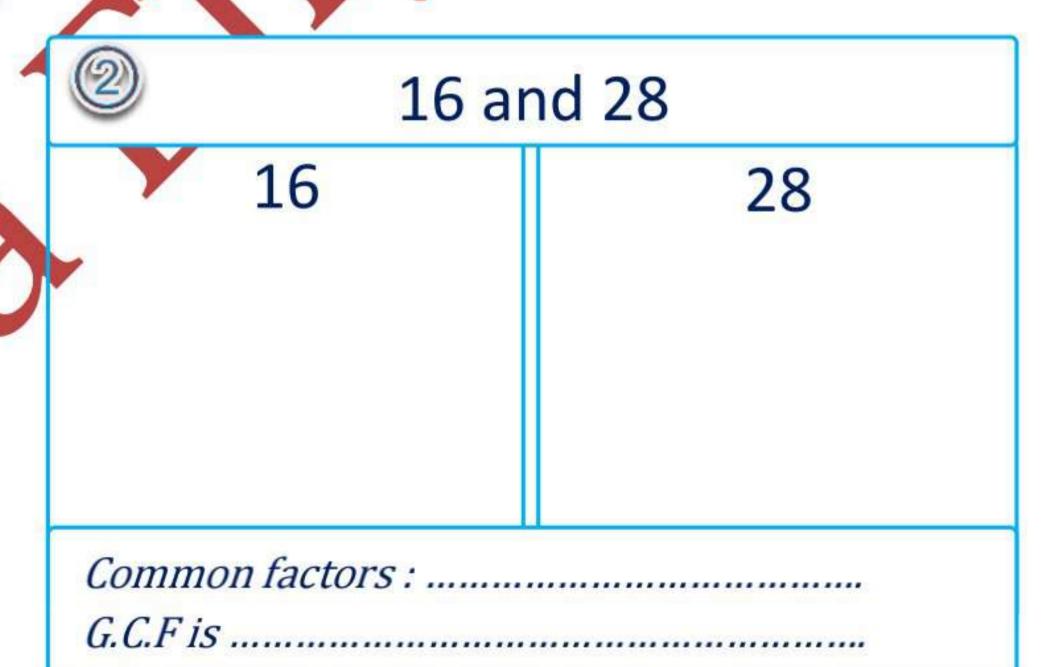
Ex: Find the factors and (G.C.F) for each pair:

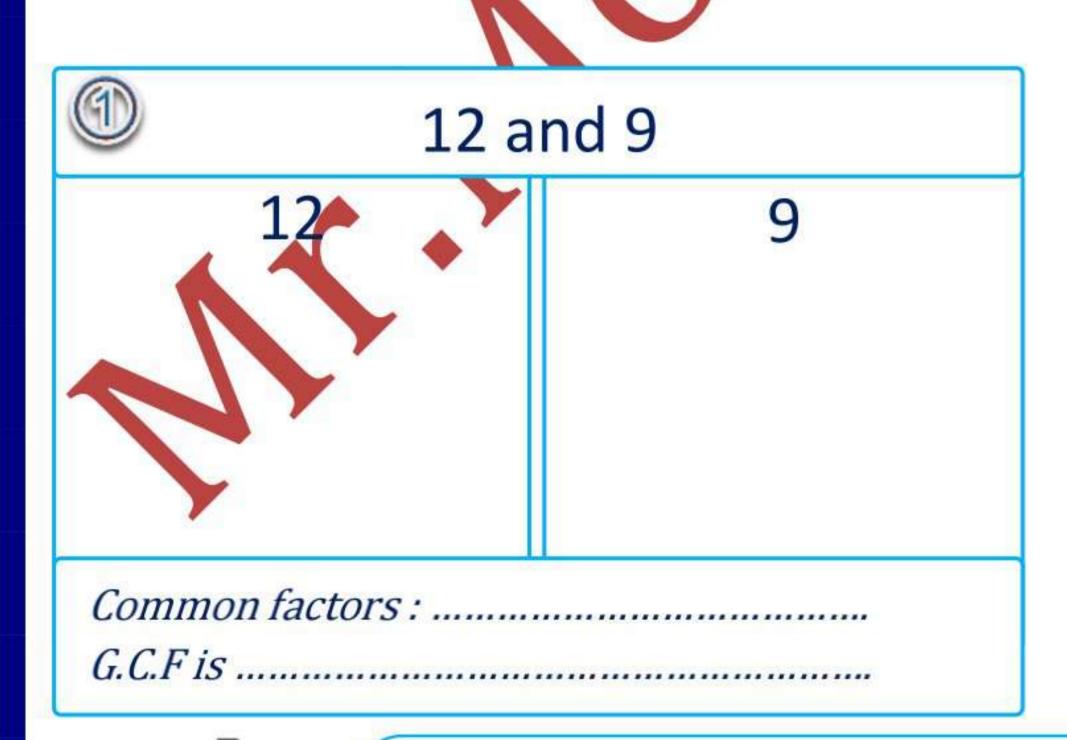


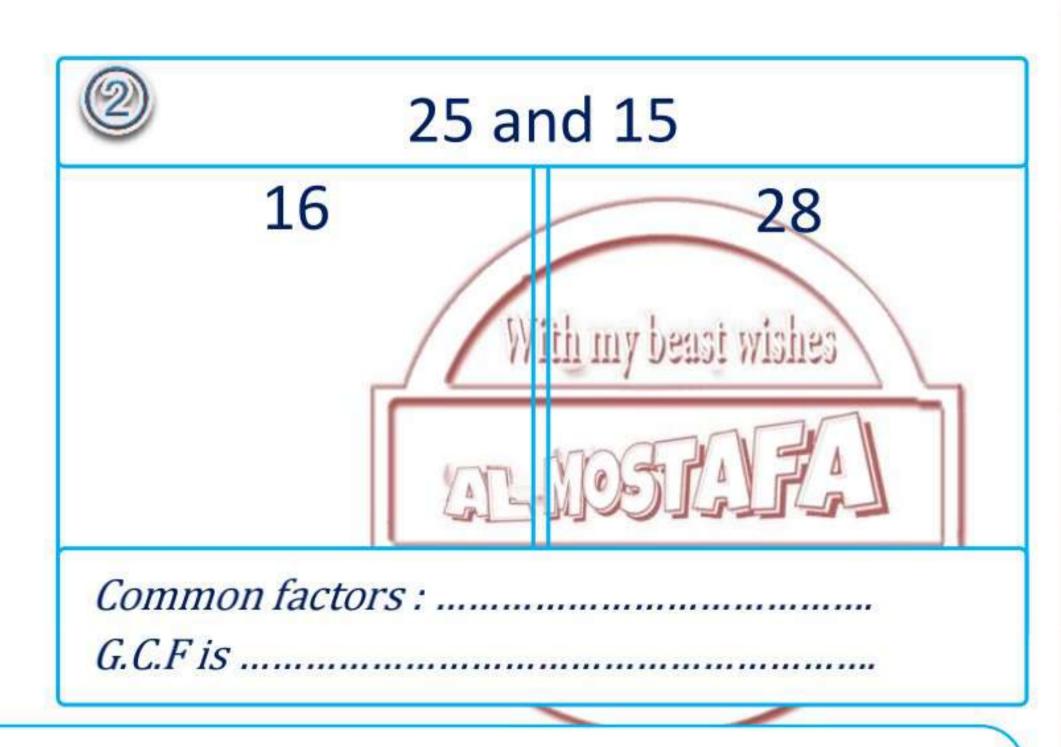
16 and 28		
16	28	
Common factors:		

**Exercise** Find the factors and (G.C.F) for each pair:









Note

- 1 is common factor for all whole numbers
- O Any two prime numbers have one common factor is 1



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[ 1, 2, 3

, 10

## Home Work

#### (1) Choose the correct answer:-

① The common factor of all numbers is ... ... [ 0, 1, 2, 50 ]

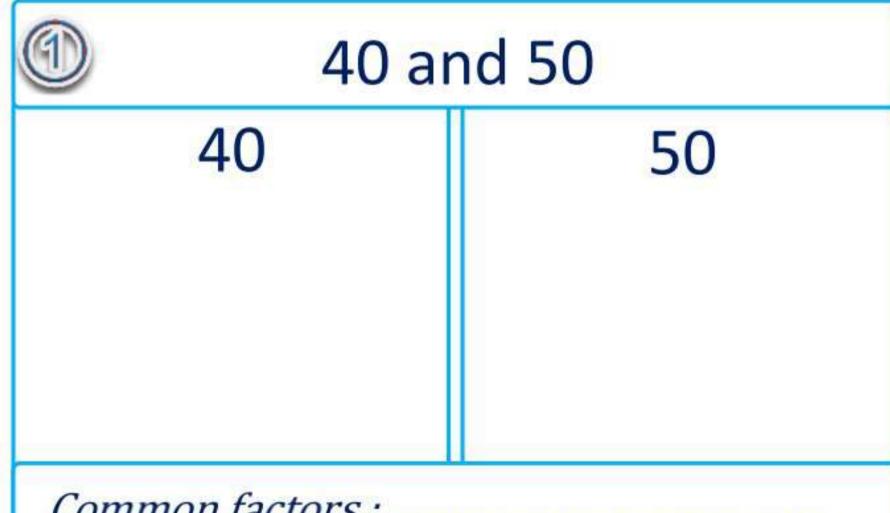
②......is common factor of 12 and 18. [4, 5, 6, 12]

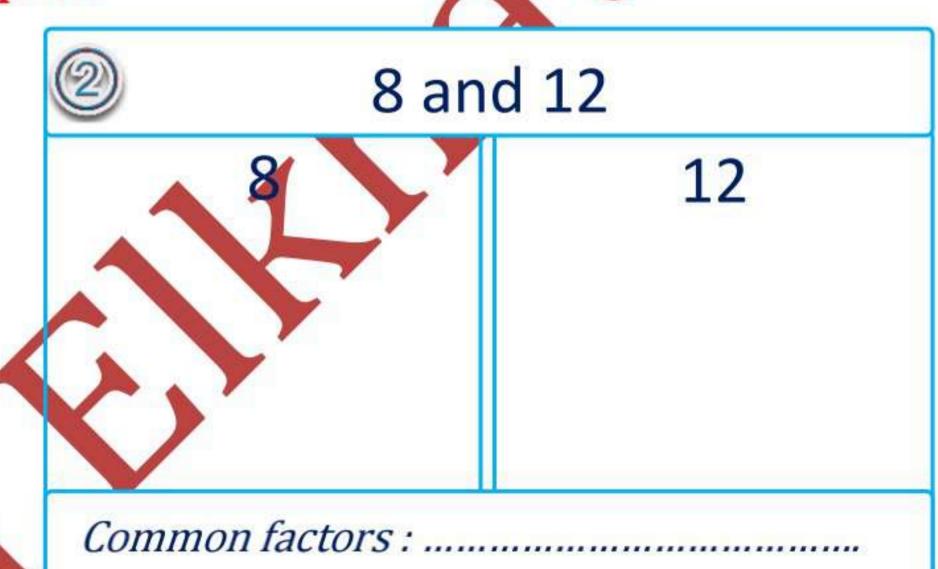
③.....is G. C. F of 6 and 15.

(4) the G.C.F of 18 and 27.

(5) the G.C.F of 20 and 30.

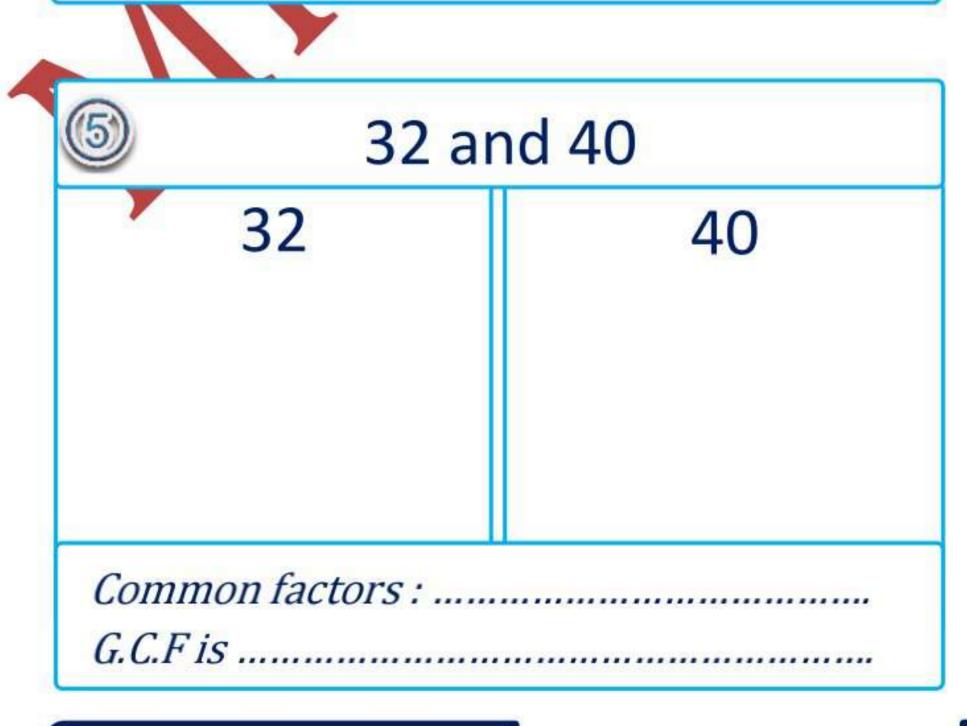
#### (2) Find the factors and (G.C.F) for each pair



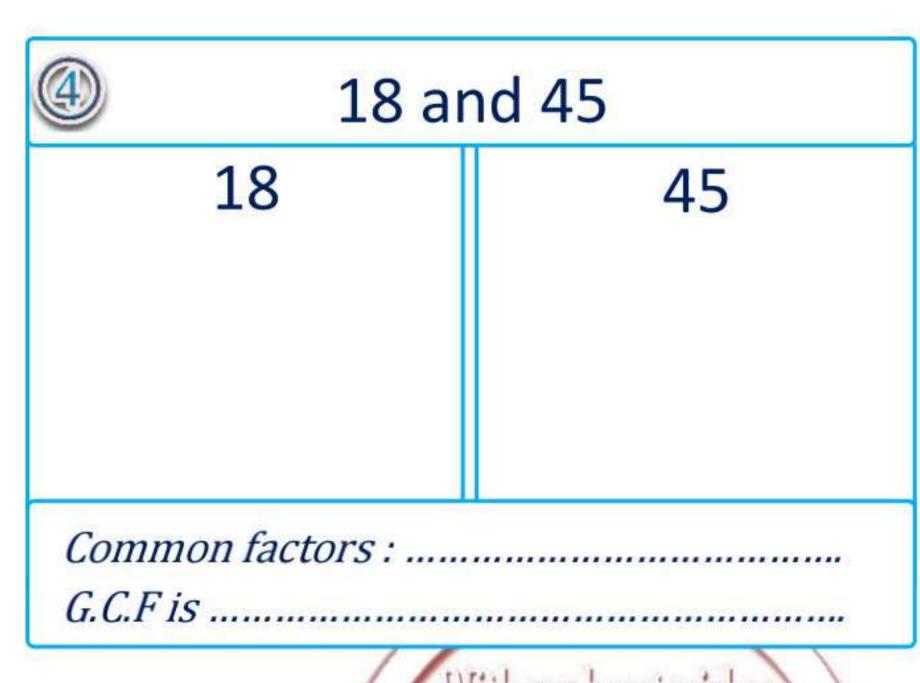


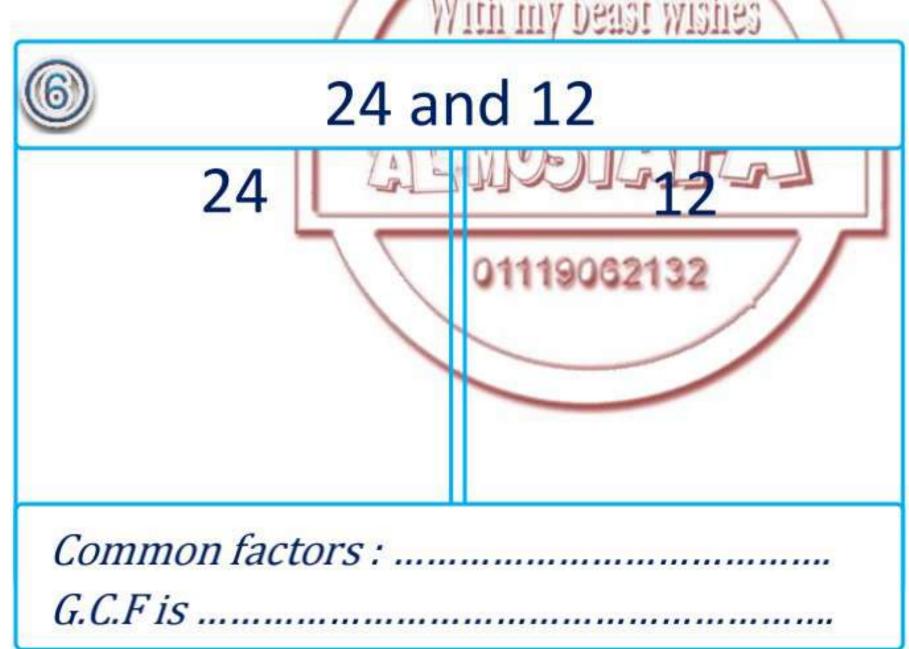
G.C.F is .....

3 10 and 15
10 15
Common factors:



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lessons 4 &5

# Identifying multiples of whole numbers Common multiples

Learn A multiple is the product of multiply the given number by other numbers

Zero is common multiple of all numbers

Ex: ① multiples of 2 are 0,2,4,6,8,10,12,14,16,18,20,..... and so on.

All even numbers are multiple of 2

② multiples of 3 are 0,3,6,9,12,15,18,21,24,27,30,.....and so on.

All numbers that the sum of its digit 3,6,9,12,15,18,.... are multiple of 3

All numbers that the ones digit is 0 or 5 are multiple of 5

**Exercise** List 4 multiple for each of the following

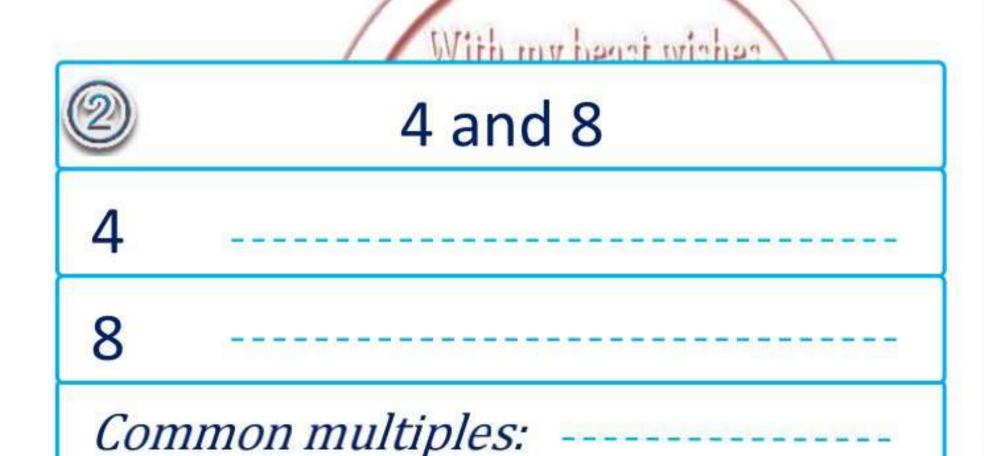
- ① 4 → ------
- ② 6 → --

① 8 → --

②10→ -----

Learn A common multiple is a multiple of two or more numbers

Ex①: (find 3 common multiple for:



0

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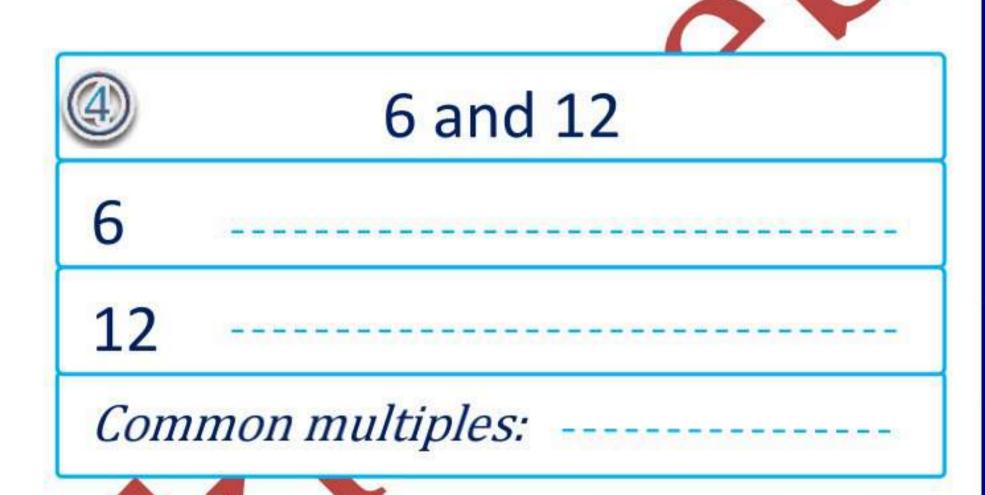
73

# **Exercise** Find 3 common multiple for :

1	4 and 6
2	
3	
Common multiples:	

2	5 and 10	
5		
10		
Common multiples:		





# Ex①: Choose the correct answer:

- [7,16,24,46]
- The number that is not multiple of 3 is ... ...
- [ 3 , 21 , 13 , 36 ]

320 is multiple of .......

- [ 3, 6, 8, 10]
- (4) Which is a common multiple of 5 and 8 ..... [ 20, 40, 35, 45]
- (5) Which is a common multiple of 10 and 20 ..... [ 10, 15, 20, 25]

# **Exercise** Choose the correct answer:

- 7, 16, 28
- The number that is not multiple of 7 is ......
- 35
- .... is a common multiple of all numbers ... ...
- Which is a common multiple of 2 and 3 ... ...
- 25
- (5) Which is a common multiple of 4 and 5 ... ...
  - خذ أول حرف من كل صورة





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#### (1) Choose the correct answer:

① The number that is multiple of 3 is ... ... ... [7, 16, 24, 46]

②The number that is not multiple of 3 is ... ... [ 3 , 9 , 23 , 27 ]

330 is multiple of ......

[3,6,10, all previous

350 is multiple of ... ... ...

Which is a common multiple of 5 and 7 ..... [ 20 , 40 , 35 , 45

**5**Which is a common multiple of 3 and 9 ... ...

3, 6, 21, 29]

© 20 is a common multiple of ...... [2 and 6, 3 and 5, 3 and 4, 2 and 5]

#### 2)Complete:

1) The common multiple of all numbers is ......

⑤.....is a common multiple of 3 and 5

(3) Write the multiples of 3 and 4 up to 30, then find the common multiples:

Multiples of 3

Multiples of 4

The common multiples

(4) Write the multiples of 6 and 8 up to 40, then find the common multiples:

Multiples of 6

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Multiples of 8

The common multiples

4) Write the multiples of 5 and 10 up to 50, then find the common multiples:

Multiples of 5

Multiples of 10

The common multiples

.\_\_\_\_\_\_

lessons 6

# Relation between factors and multiples

Learn

$$3 X 5 = 15$$

$$\downarrow \qquad \qquad \downarrow$$

Factor Factor Multiple

3 and 5 are factors of 15 15 is multiples of 3 and 5 4 X 7 = 28  $\downarrow \qquad \qquad \downarrow$ 

Factor Factor Multiple

4 and 7 are factors of 28
28 is multiples of 4 and 7

# Ex①: Complete the following:

36 is a multiple of .....

46 is a factor of .....

⑤.....is a multiple of 8

6..... is a factor of 8

# **Exercise** Choose Factor or Multiple to each of the following:

① 6 is a ...... of 3

② 4 is a ..... of 12

3 15 is a ..... of 3

4 24 is a ... of 8

5 14 is a ........ of 7

6 9 is a ..... of 27

78 is a ..... of 4

® 5 is a ..... of 30

⑨ 10 is a . . . . of 5

10 6 is a ..... of 18

[ Factor or Multiple ]

[ Factor or Multiple ]

[ Factor or Multiple

[ Factor or Multiple ]

Factor or Multiple

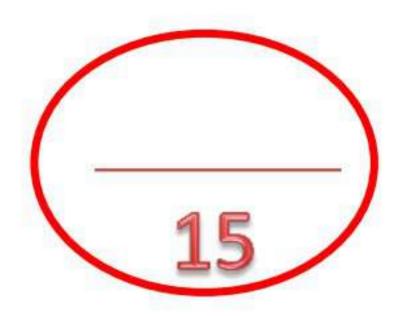
Factor or Multiple ]

Factor or Multiple

Factor or Multiple

Factor or Multiple

[ Factor or Multiple



#### Ex1: Complete the following:

- ① If 4X9 = 36, then 4 and 9 are a factors of ......
- 39 is a multiple of .....
- (4) 4 is a factor of .....
- ⑤..... is a multiple of 7
- 6..... is a factor of 20

# **Exercise** Choose Factor or Multiple to each of the following:

- ① 21 is a ..... of 3
- ② 4 is a ..... of 20
- ③ 1 is a ...... of 3
- 4 24 is a ..... of 12
- ⑤ 35 is a ...... of 7
- 6 9 is a ..... of 45
- 712 is a ..... of 4
- ® 5 is a ...... of 25
- 9 10 is a ..... of 20
- 1 9 is a .... of 18

- Factor or Multiple
- [ Factor or Multiple ]
- [Factor or Multiple]
- [ Factor or Multiple
- [ Factor or Multiple ]
- [Factor or Multiple

Factor or Multiple ]
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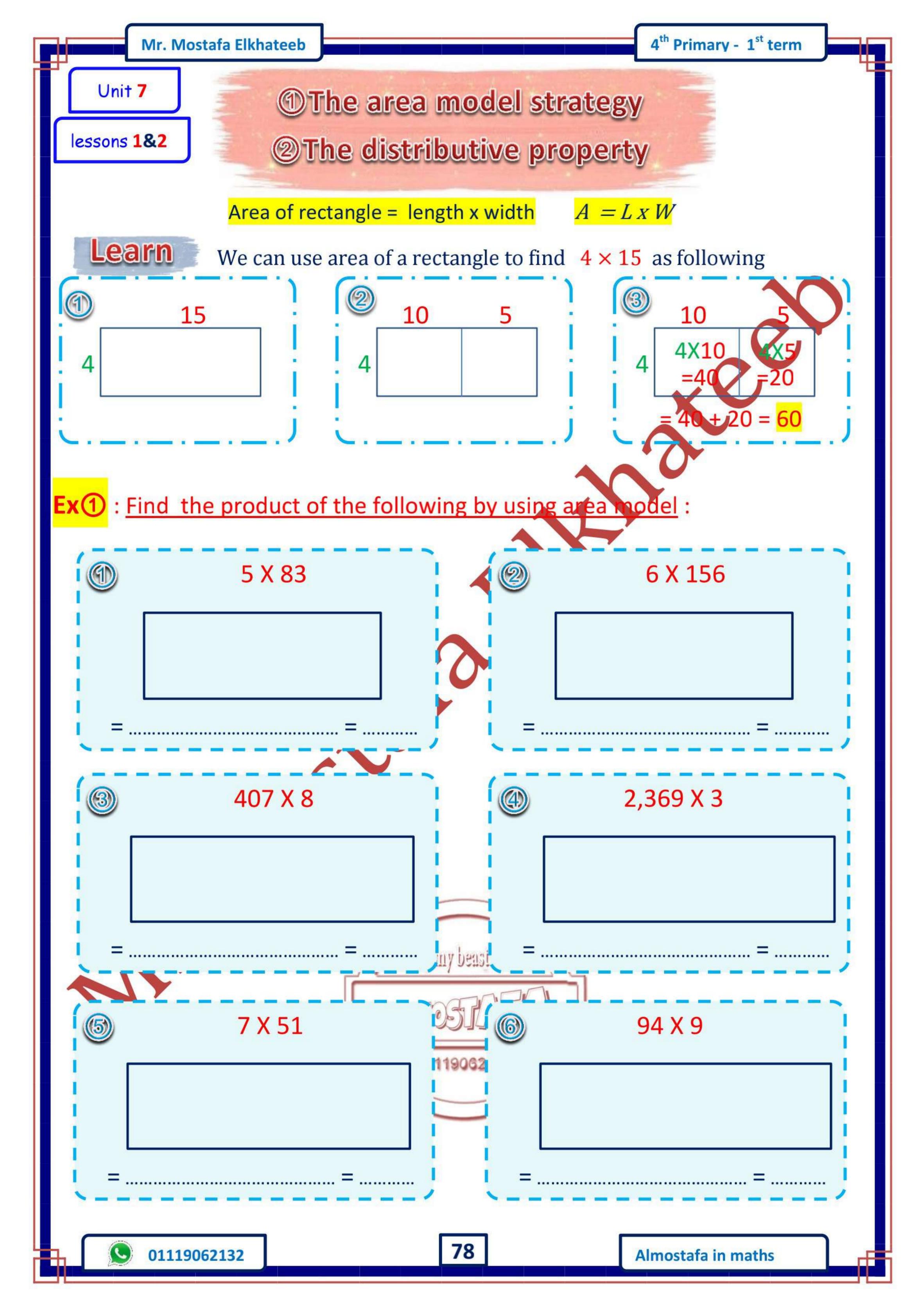


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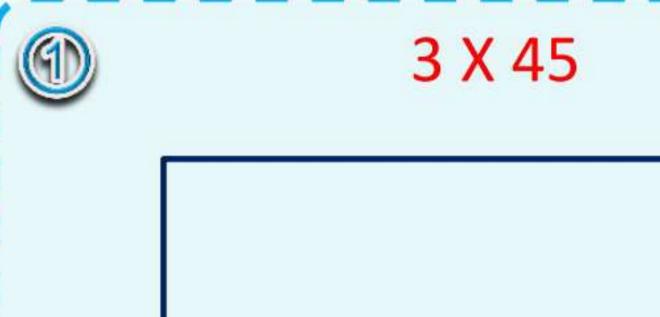


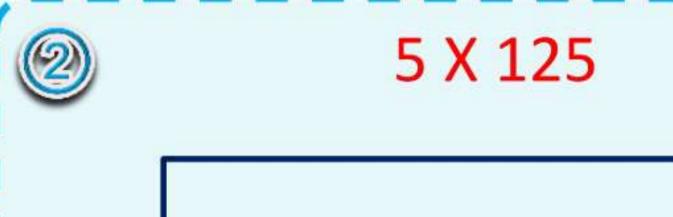
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**77** 

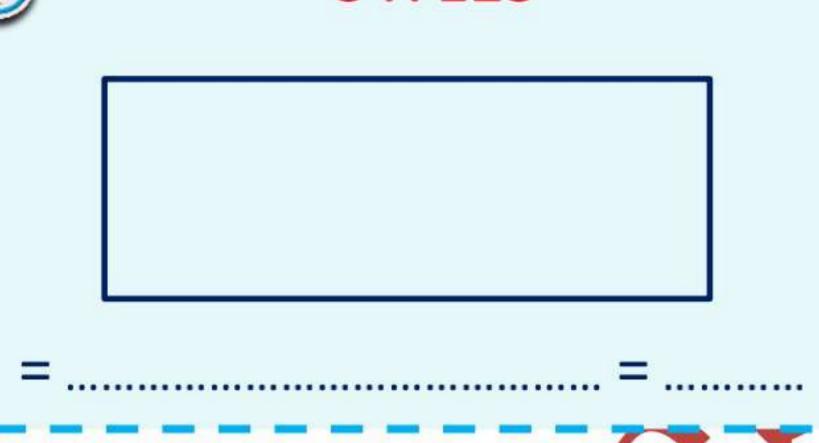


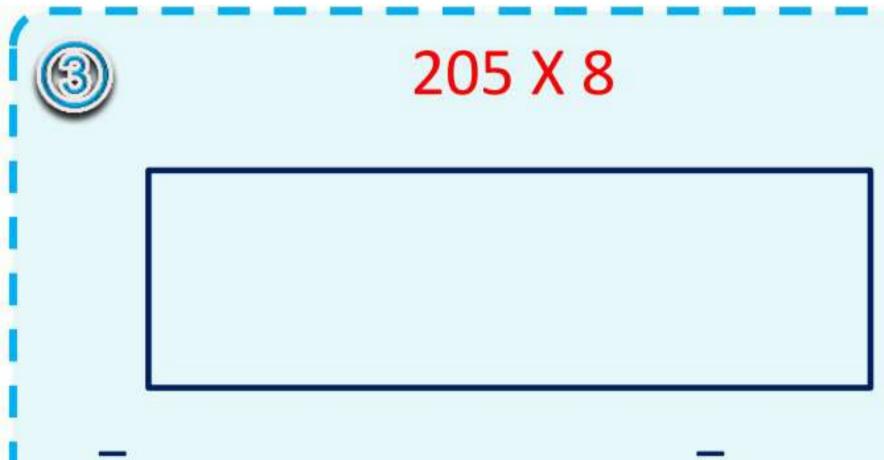
Exercise Find the product of the following by using area model:

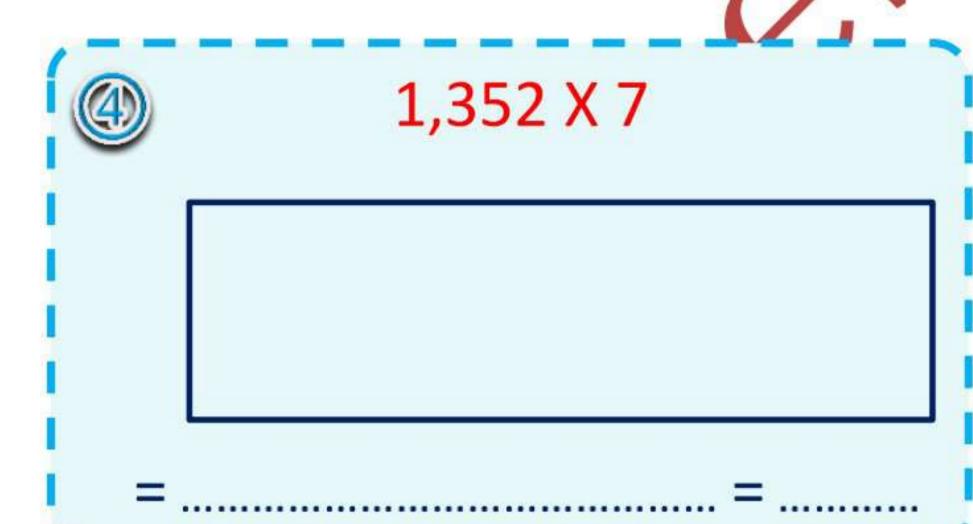








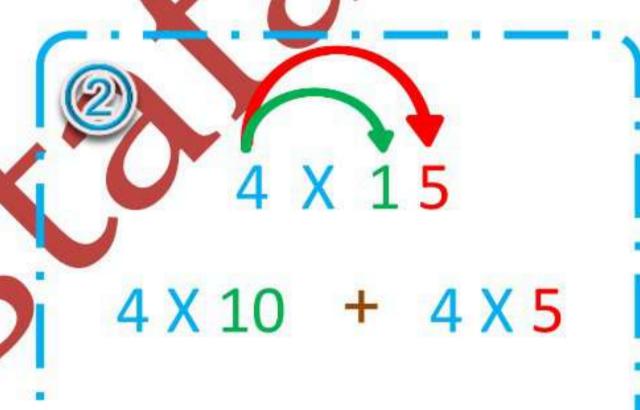


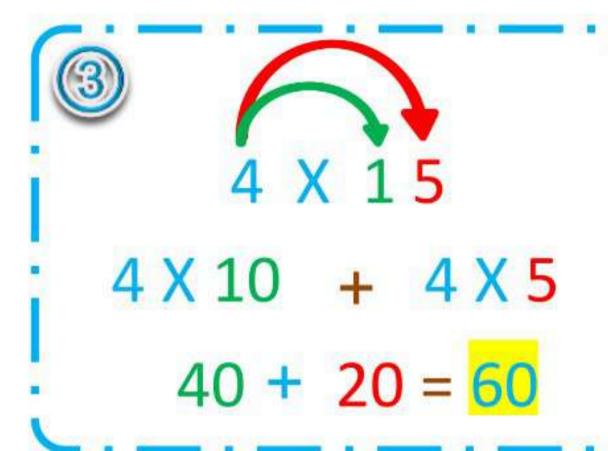


The distributive property

We can use The distributive property to find  $4 \times 15$  as following Learn







Ex1 : Find the product of the following by distributive property:





7 X 412

Which strategy-do-you like more?

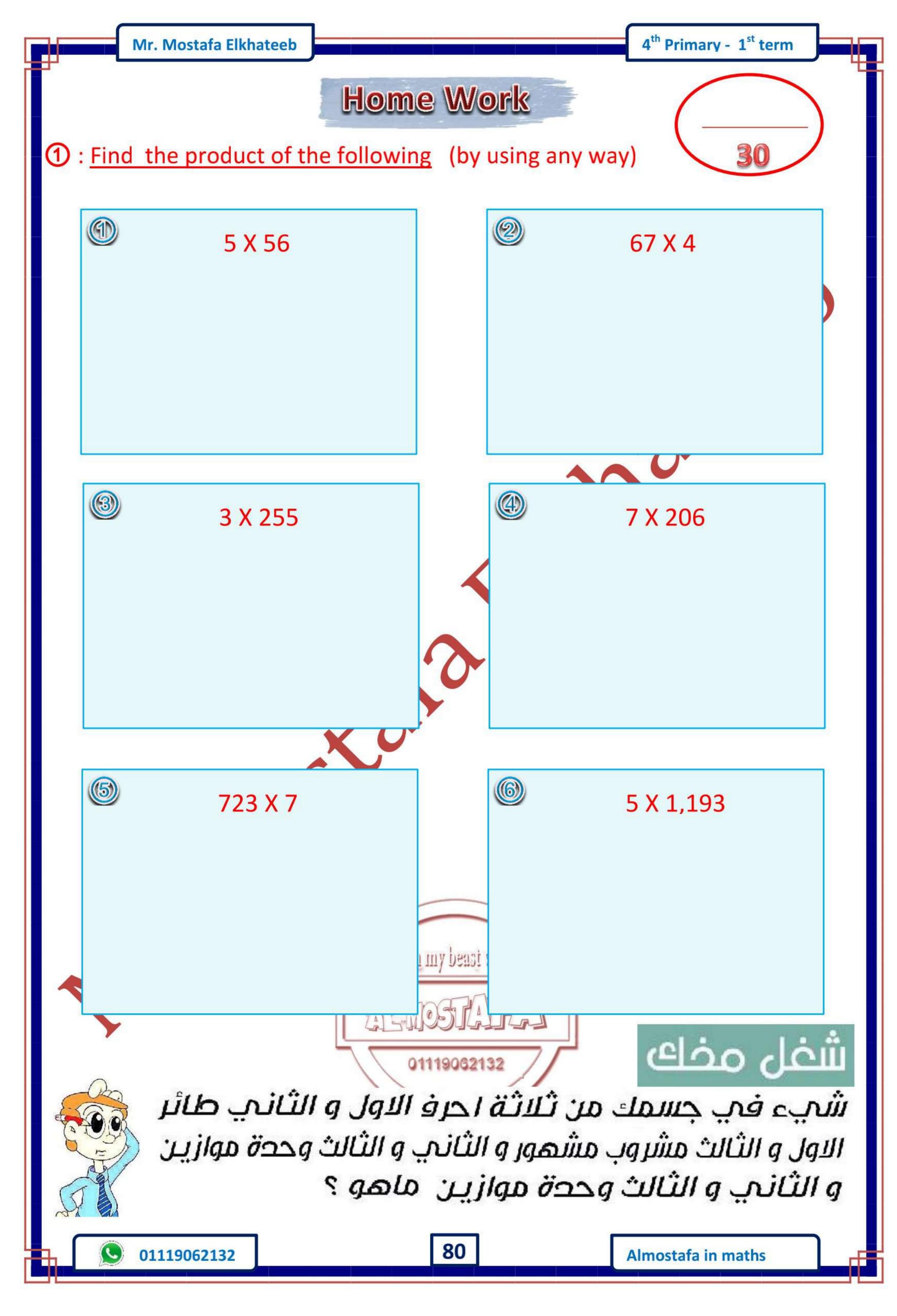
Area model

Distributive property



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**79** 

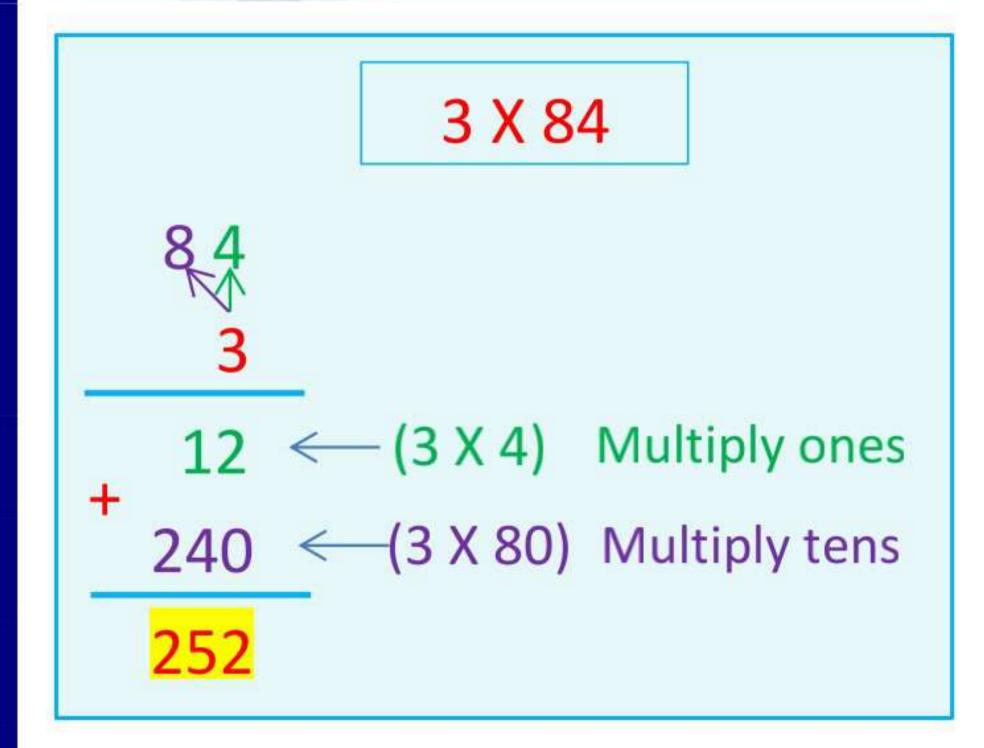


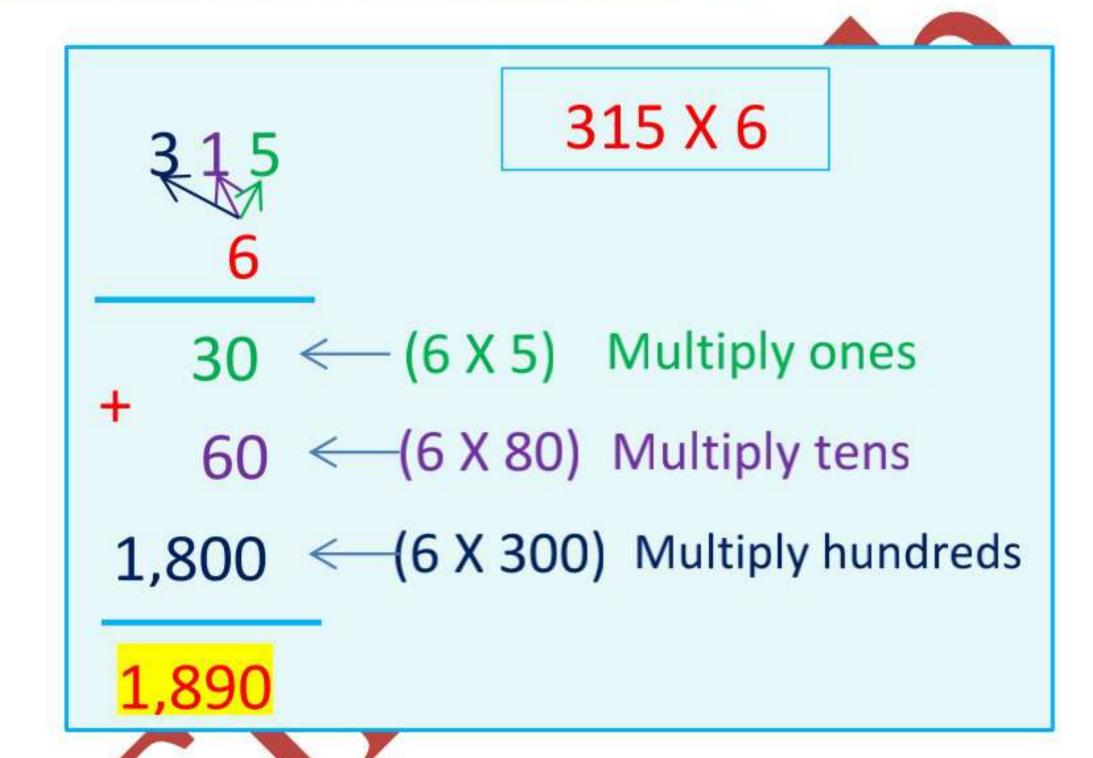
lessons 3&4

- **The Partial products Algorithm**
- **The Standard Multiplication Algorithm**

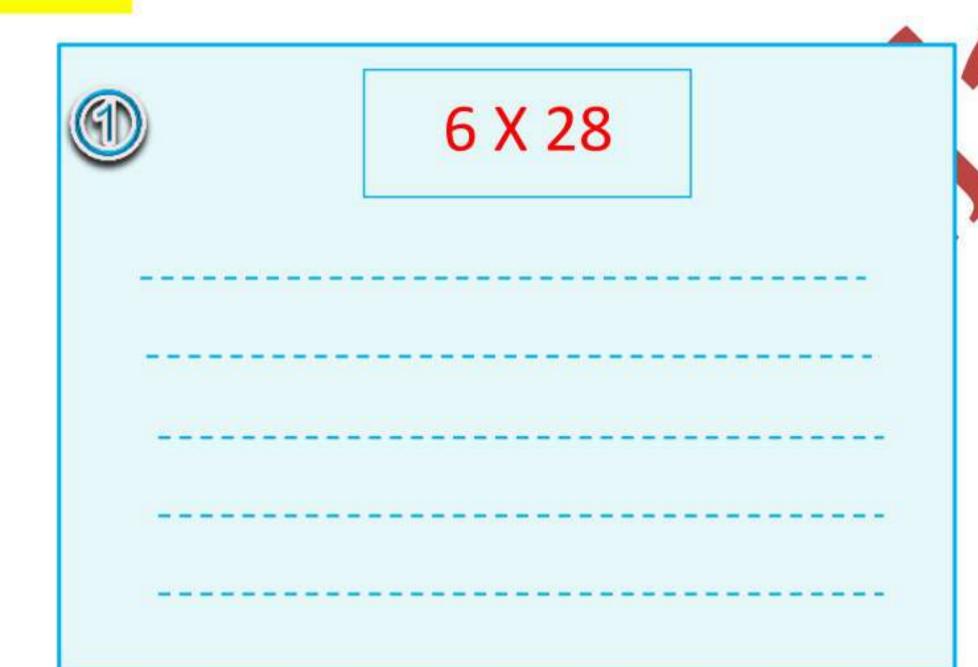
#### Learn

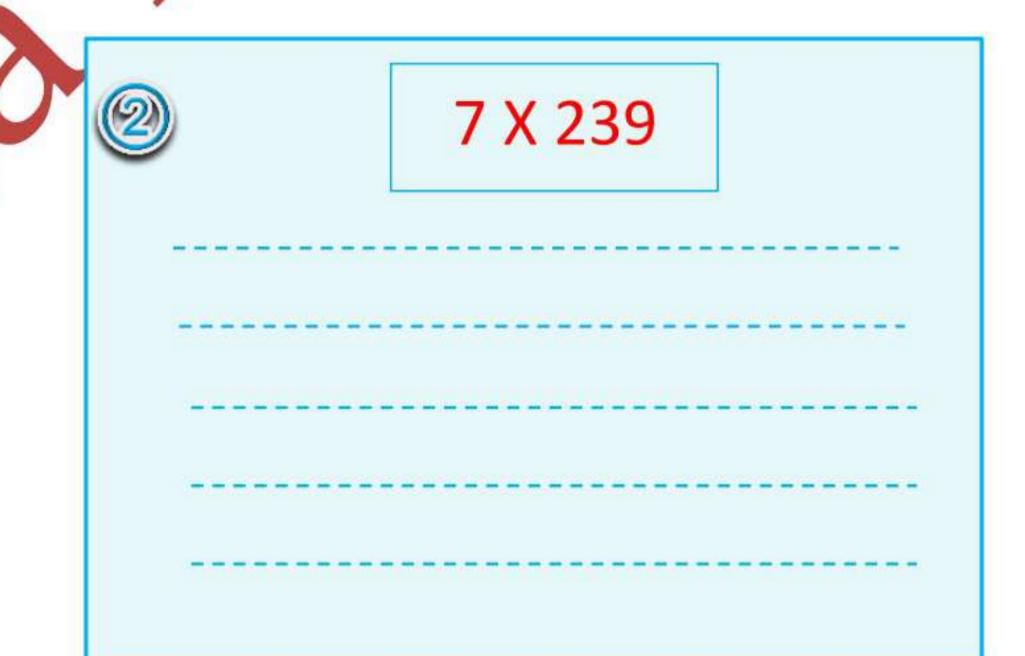
#### The Partial products Algorithm





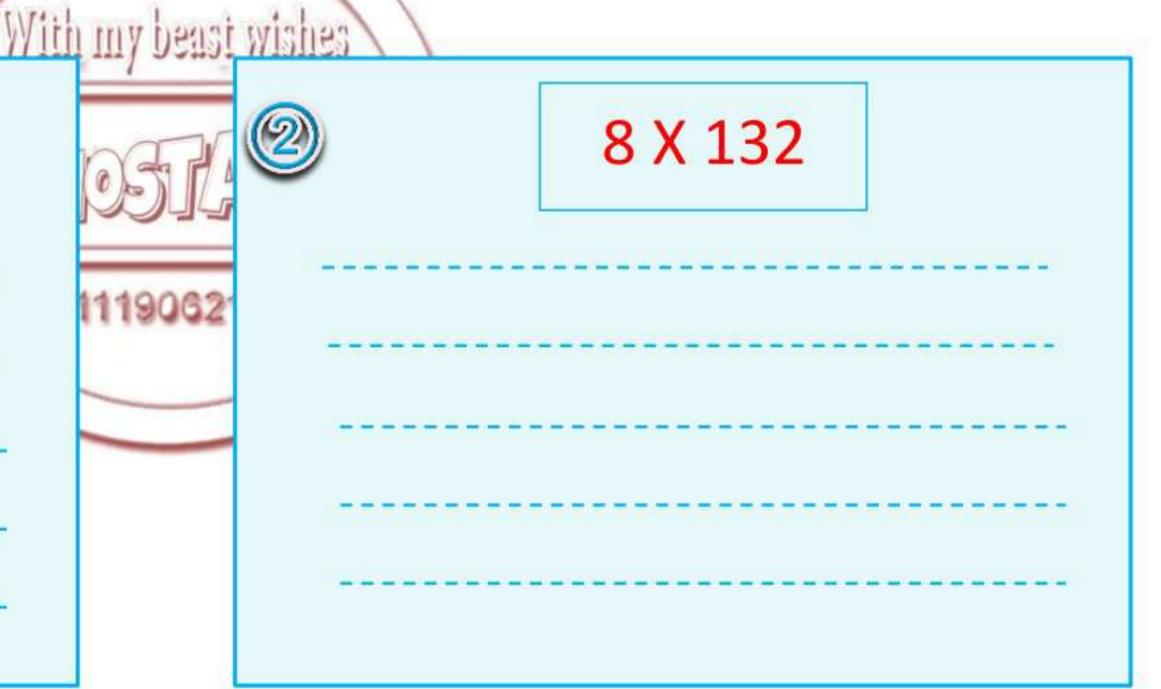
Ex①: Find the product of the following by the Partial products Algorithm





Exercise: Find the product of the following by The Partial products Algorithm





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81

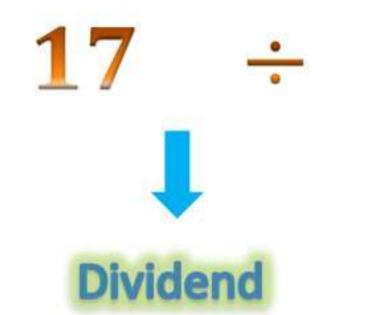
82

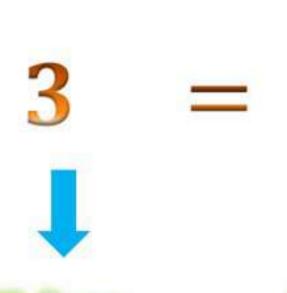
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lessons 5&6

- **© Exploring remainders**
- @Pattern and place value in division

If we want to divide 17 pencils into 3 pencil case, How many Learn pencil there in each one? and how many pencils are lest









- Always the remainder must be less than the divisor.
- The dividend
- = divisor a quotient + remainder

**Ex1**: Find the quotient and the remainder of the following

① 
$$11 \div 3 = \dots R$$
 ......

$$211 \div 4 = \dots R$$



**Work Area** 

② 
$$22 \div 6 = \dots R$$
 .....

$$\textcircled{4}$$
 12 ÷ 5 = .....  $R$  ....

$$9 7 \div 2 = ----R$$

$$\textcircled{6}$$
 18 ÷ 7 = .....  $R$  .....

$$35 \div 6 = ----R$$

$$824 \div 7 = \dots R \dots$$

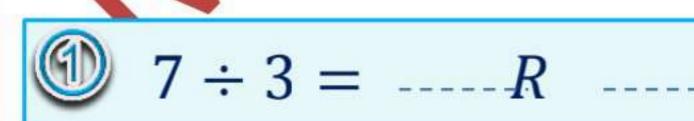
$$9 12 \div 3 = \dots R$$

$$0010 \div 2 = \dots R \dots$$

$$19 \div 3 = \dots R$$

$$@20 \div 6 = \dots R \dots$$

With my beast wishes **Exercise** Complete the following



$$20 \div 4 = \dots R$$



 $39 25 \div 6 = ----R$ 

$$32 \div 5 = \dots R$$



(5)  $15 \div 3 = \dots R$ 

$$6030 \div 7 = \dots R \dots$$

Almostafa in maths

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#### Learn

#### Pattern and place value in division

$$8 \div 2 = 4$$

$$80 \div 2 = 40$$

$$800 \div 2 = 400$$

$$8,000 \div 2 = 4,000$$

$$15 \div 3 = 5$$

$$150 \div 3 = 50$$

$$1500 \div 3 = 500$$

$$15,000 \div 2 = 5,000$$

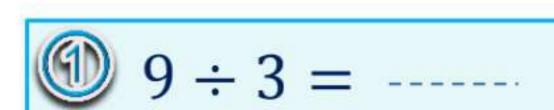
$$20 \div 4 = 5$$

$$200 \div 4 = 50$$

$$2000 \div 4 = 500$$

$$20,000 \div 4 = 5,000$$

#### Ex①: Find the quotient of the following



$$900 \div 3 = -----$$

$$9,000 \div 3 = ----$$

$$\textcircled{4}$$
 32 ÷ 4 = -----

$$9.20 \div 4 = ----$$

$$6032,000 \div 4 = ----$$

$$350 \div 5 = -----$$

$$935,000 \div 5 = ----$$

# **Exercise** Choose the correct answer:

① 
$$23 \div 4 = \dots$$

② 
$$25 \div 8 = \dots$$

$$345 \div 7 = \dots$$

$$4)$$
 37 ÷ 5 = ......

⑤ 
$$69 \div 8 = \dots$$
 ⑥  $3,500 \div 5 = \dots$ 

#### ® 270 ÷ 9 .....

 $@If 34 \div 8 = 4 R2$ , then 2 is called

- [3R2,5R2,5R3,5R4]
- [ 3 R2 , 3 R1 , 1 R3 , 3 R4 ]
- [3R6, 5R3, 6R3, 5R2]
- [ 7 R2, 5 R2, 7 R5, 7 R3]
- [ 8 R2, 9 R6, 5 R8, 8 R5]
  - [ 50 , 70 , 500 , 700
    - [ 40, 30, 60, 50]
      - [ 90, 9, 3, 30]
- [dividend divisor, qoutient, remainder]
- ① If  $19 \div 5 = 3 R4$ , then 5 is called ......

[dividend, divisor, qoutient, remainder]



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[3R2, 5R2, 5R3, 5R4]

[3R2, 3R1, 1R3, 3R4]

[3R6, 5R3, 6R3, 5R2]

[7R2,5R2,7R5,7R3]

[8R2,9R6,9R4],8R5]

[40, 30, 60, 50]

[ 90, 9, 4, 40]

, 500 , 700

### Home Work

#### **①Choose the correct answer:**

- ①  $33 \div 6 = \dots$
- ②  $31 \div 9 = \dots$
- (3)  $27 \div 7 = \dots$
- (4)  $42 \div 8 = \dots$
- ⑤  $49 \div 5 = \dots$
- $61,500 \div 3 = \dots$
- ⑦ 240 ÷ 6 ......
- ® 360 ÷ 9 .....
- $@If 50 \div 8 = 6 R2$ , then 50 is called .....
- [dividend, divisor, qoutient, remainder]
- ① If  $66 \div 7 = 9 R3$ , then 9 is called ...........
- [dividend, divisor, qoutient, remainder]
- 2: Find the quotient and the remainder of the following
- $17 \div 3 = R_{---}$

- $48 \div 9 = R$
- (5)  $38 \div 7 = R = R = R$  (6)  $19 \div 4 = R$

Vith my beast wishes

- 3 Find the quotient of the following
  - $214 \div 2 =$
- $140 \div 2 =$
- 3) 1,400 ÷ 2 =

- 4 20 ÷ 4 =
- $200 \div 4 =$
- $\textcircled{6}20,000 \div 4 =$

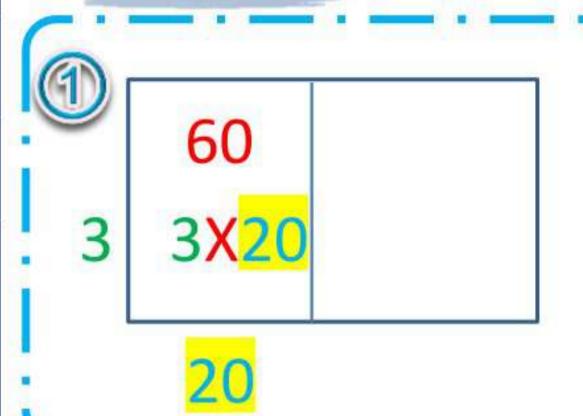
- $\bigcirc 150 \div 5 =$
- $3,500 \div 5 =$
- $915,000 \div 5 =$

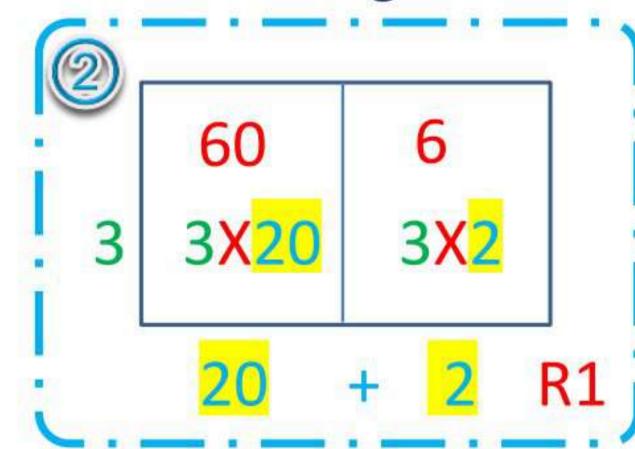
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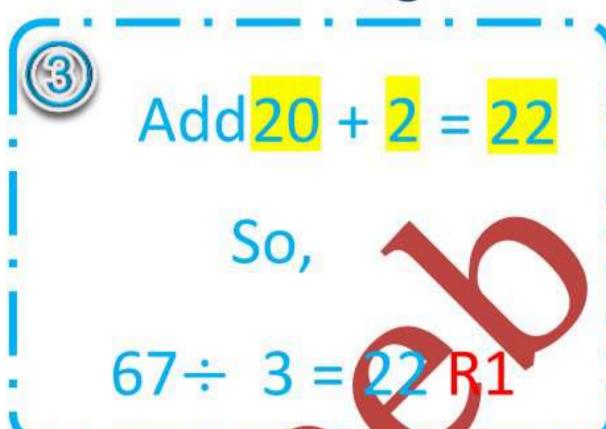
lesson 7

#### The area model and division

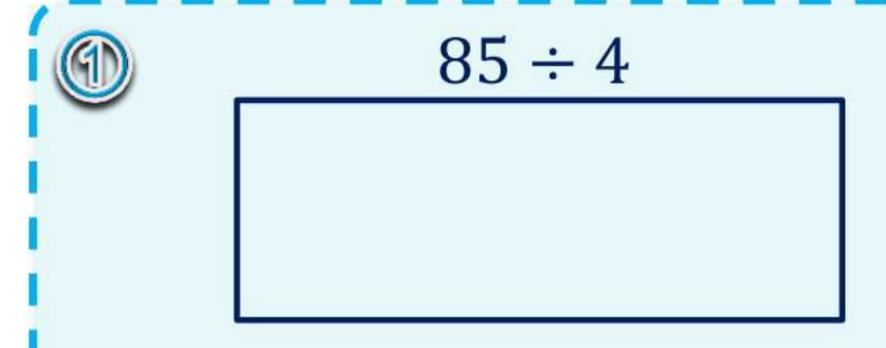
**Learn** We can use area of a rectangle to find 67 ÷ 3 as following







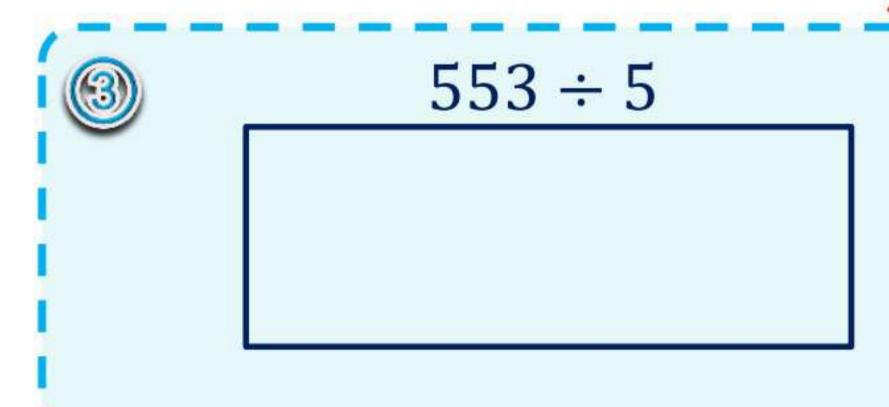
Ex①: Use the area model to solve:



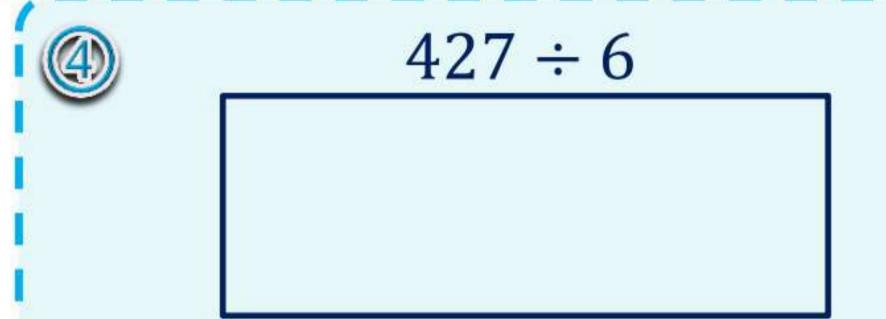
$$85 \div 4 = \dots R$$



$$217 \div 5 = R$$

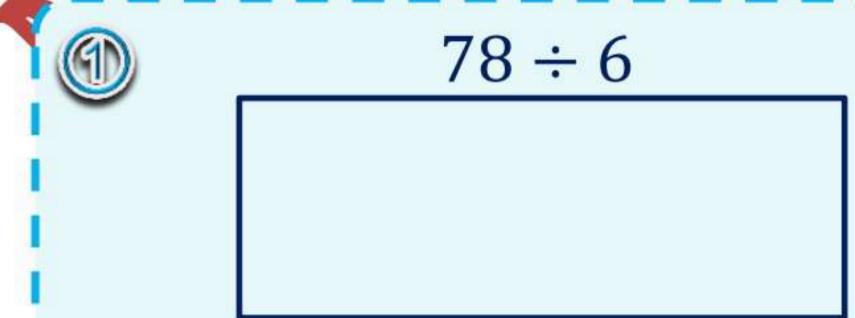


$$553 \div 5 = \dots R_{---}$$



$$217 \div 5 = R$$

Exercise Use the area model to solve:







$$139 \div 9 = R$$

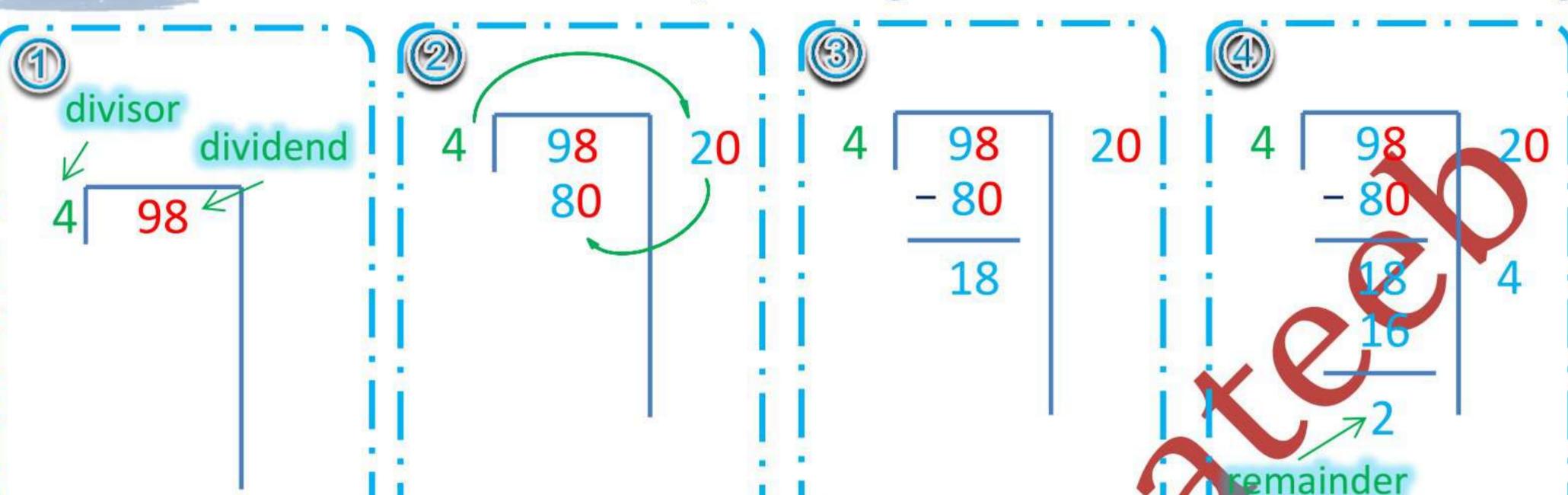
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lesson 8

# **The Partial Quotient Algorithm**

Learn We can use The Partial Quotient Algorithm to find 98 ÷ 4 as following



Then  $98 \div 4 = 24 R2$ 

### Ex① :Divide

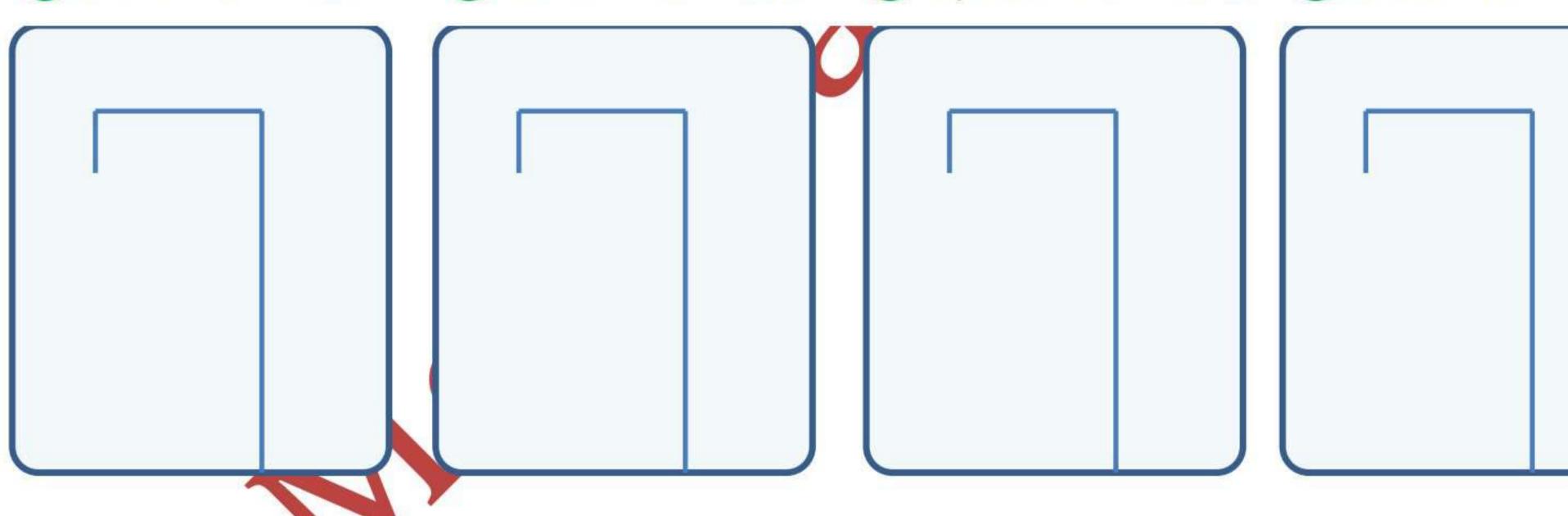
Notes

Always the remainder must be less than the divisor.

• The dividend = divisor x quotient + remainder

$$(3) 8,785 \div 7 = \dots$$

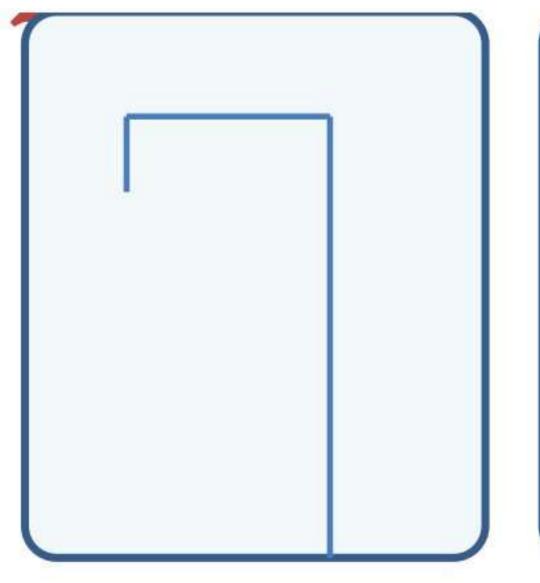
① 
$$76 \div 4 = \dots$$
 ②  $678 \div 6 = \dots$  ③  $8,785 \div 7 = \dots$  ④  $310 \div 8 = \dots$ 



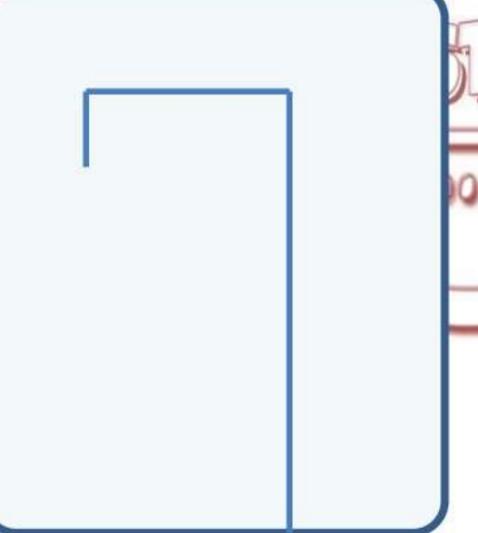


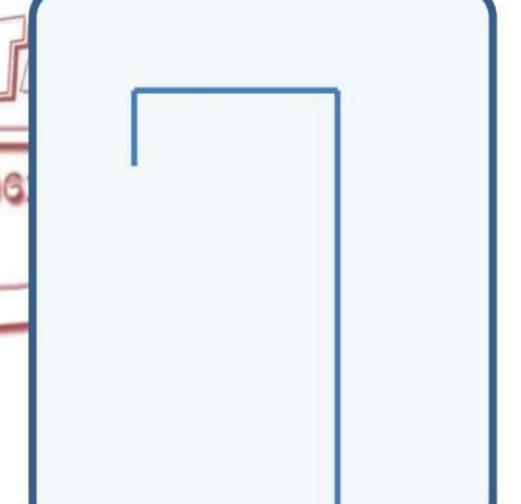
① 
$$83 \div 5 = \dots$$
 ②  $475 \div 4 = \dots$  ③  $5,649 \div 4 = \dots$  ④  $935 \div 8 = \dots$ 

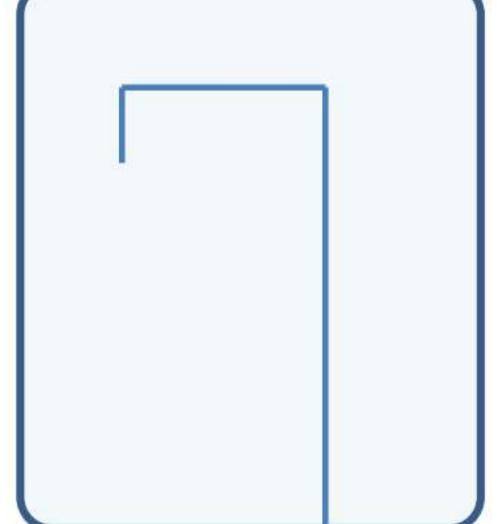
$$(4) 935 \div 8 = \dots$$









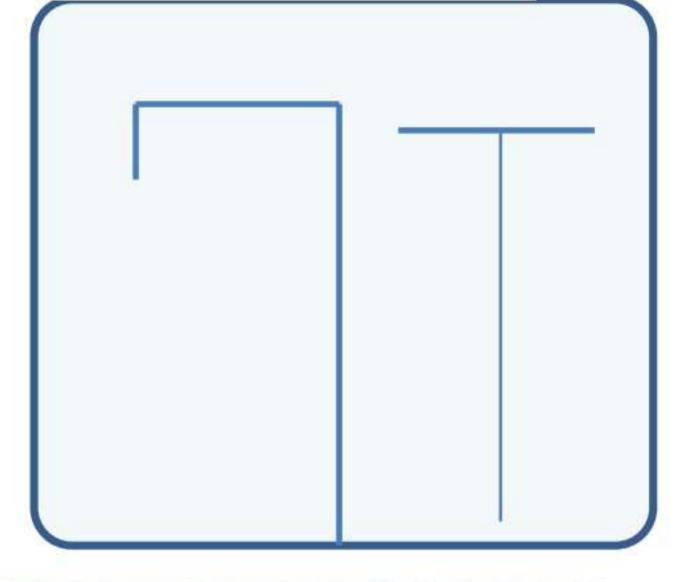


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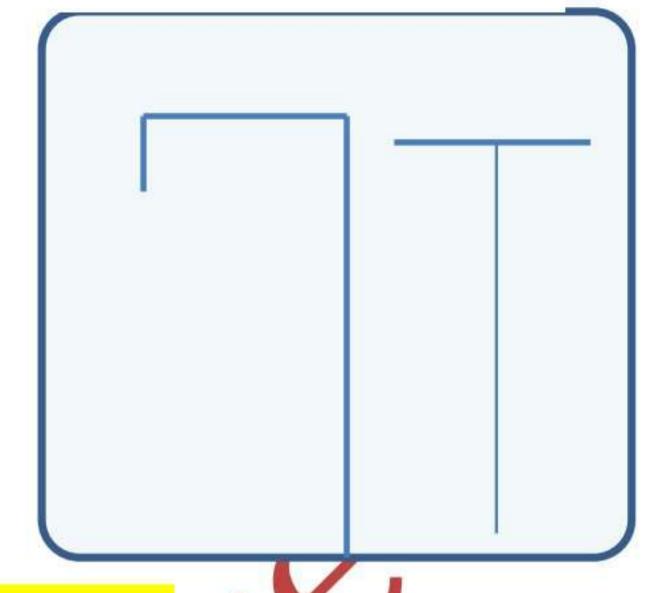
88

### **Exercise** Divide using The Standard Division Algorithm

- 1) 1,423÷ 5 = .....
- $(2)8,534 \div 6 = \dots$
- $35,430 \div 5 = \dots$







#### **Story Problems**

you can use your favorite strategy

1) If you had 52 sandwiches to put into 4 lunch boxes. ,how many sandwiches would be put into each box if you divided them equally?

2 There are 154 tourists divided into equal groups. If each group has 7 tourists, how many groups will there be?

With my beast wishes

أنت تسوق حافلة بداخلها 10 أشخاص، عند الوصول الى المحطة الأولى نزل أربعة أشخاص و صعد ثلاثة عند الوصول الى المحطة الثانية نزل خمس اشخاص و صعد ستة في المحطة الثالثة نزل 3 و صعد 4 أشخاص. السؤال هو كم عمر سائق الحافلة!!؟



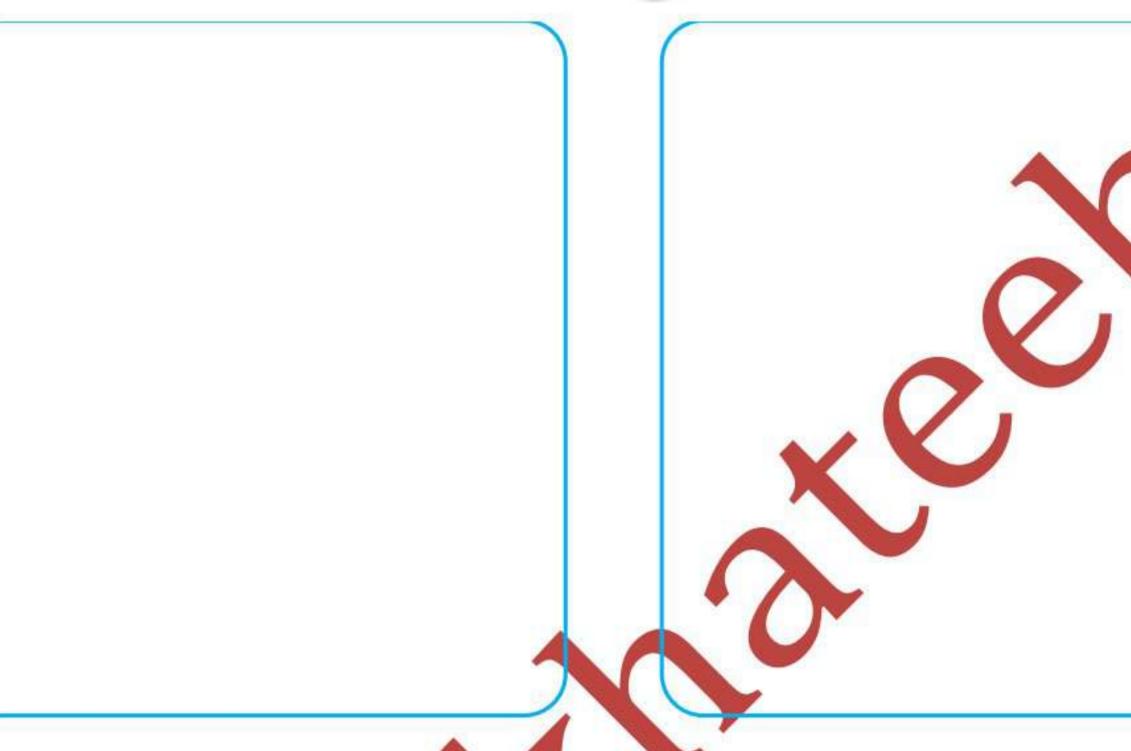
90

#### Divide using your favorite strategy:











$$67 \div 4 = ...$$





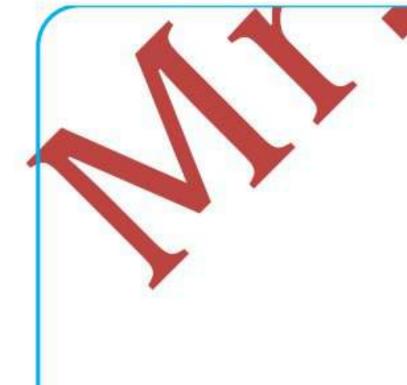






$$4,253 \div 7 = \dots$$









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lesson 10

## @Division and Multiplication

#### **Exercise** Estimate the result

If we want to divide  $584 \div 4$  we can Estimate the quotient by 2 facts

584 is between 400 and 800 so,

Fact 1:  $400 \div 4 = 100$ 

Fact 2:  $800 \div 4 = 200$ 

So, the quotient between 100 and 200

#### Ex 1 : Complete :

- 3 if the problem  $1,735\div7$  , the quotient between ....... and .........
- (4) if the problem  $2,378 \div 4$ , the quotient between ...... and ........
- (5) if the problem  $7,536 \div 2$  , the quotient between ...... and .......
- 6 if the problem 38,475 + 7, the quotient between ...... and .......

# Exercise, complete:

- ① if the problem  $752 \div 2$  , the quotient between ...... and ........
- ② if the problem  $785 \div 3$  , the quotient between ...... and .......
- 3 if the problem  $9,735 \div 4$  , the quotient between ...... and .........
- (4) if the problem  $7,378 \div 5$  , the quotient between ...... and ........
- 5 if the problem  $8,520 \div 3$  , the quotient between ...... and .......
- 6 if the problem  $445 \div 8$  , the quotient between ....... and ........

#### Learn

#### Relation between division and multiplying

# 35

#### ⊙The division equation that matches 5 X 7 = 35

is 
$$35 \div 5 = 7$$

- ③The division equation that matches  $3 \times 518 = 1,554$  is ......

# **Exercise** Complete:

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#### (1)Complete:

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①The division equation that matches  $19 \times 2 = 38$  is .......

The division equation that matches  $7 \times 15 = 105$  is ......

®The division equation that matches  $8 \times 38 = 304$  is ......

The division equation that matches  $9 \times 38 = 342$  is ......

1 if the problem  $345 \div \textbf{3}$  , the quotient between ...... and .........

1 if the problem  $685 \div 2$  , the quotient between ....... and .........

3 if the problem 1,735  $\div$  5 , the quotient between ....... and ........

4 if the problem 2,378  $\div$  5 , the quotient between ...... and .......

5 if the problem 7,536  $\div$  6 , the quotient between ...... and ........

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Unit 8

lessons 1&2

- **Order of operation**
- @Order of operation and story problems



$$3 + 2 \times 5$$
  
 $3 + 10 = 13$ 

$$3 + 2 \times 5$$
$$5 \times 5 = 25$$



Adam

Which answer is the correct?

Salma's or Adam's

Learn

Order of operation

First

Second

Third

Multiply or divide from the left

× or ÷

Addition or subtract from the left + or -

Ex Use the order of operation to find the result:

$$[8-2] \times 6 =$$

$$5 + 10 \div 5 =$$

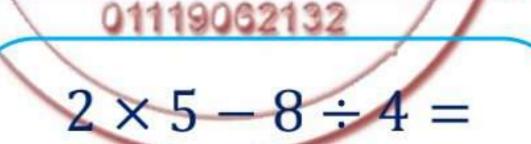








$$1 + 6 \times 7 =$$



$$9 + 4 + 5 \times 10 =$$

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# Exercise Use the order of operation to find the result:



$$[4 + 8] \div 6 =$$



$$8 + 10 \div 2 =$$



$$6 \times [2 + 3] =$$



$$12 - 6 \div 3 =$$



$$24 \div 6 \times 2 =$$

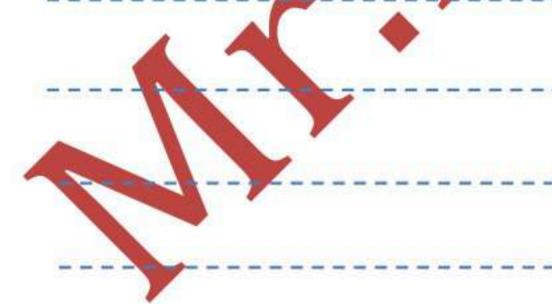


$$6 + 12 \div 3 \times 2 =$$

#### **Story Problems**

1 Abdullah loves collecting stamps. He received 246 stamps for his birthday. He kept 25 of the stamps and now he wants to give the rest to 6 of his friends. How many stamps will each friend get if they share them equally?

2) Maha walked 14 kilometers every day for 2 weeks. The next week she walked 56 kilometers. How many kilometers did she walk over those 3 weeks?









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1) Use the order of operation to find the result:



$$3 + 2 \times 6 =$$



$$2 + 10 \times 3 =$$



$$3 \times [10 - 8] =$$



$$9 - 6 \div 3 =$$



$$18 \div 3 \times 2 =$$



$$6 + 15 \div 3 \times 3 =$$



$$5 + 2 \times 4 =$$



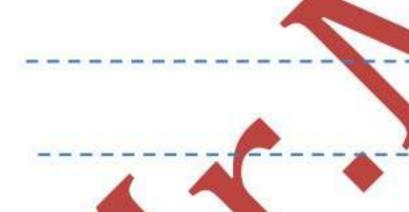
$$3 \times 6 - 8 \div 2 =$$



$$9 - 3 + 2 \times 3 =$$

1) Ali bought 3 books for 201. E each . if he had 100 L.E , How much money is left

with Ali?



With any beast-wishes

(2) Mona walked 20 kilometers every day for 3 weeks. The next week she walked 45 kilometers. How many kilometers did she walk over those 4 weeks?





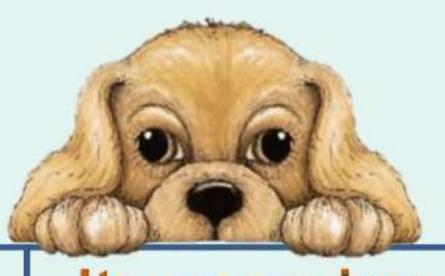


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# My little dictionary



The Word	Its meaning

TL- \A/I	
The Word	Its meaning



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